

ASBESTOS-CONTAINING BUILDING MATERIALS RE-ASSESSMENT REPORT

Mariposa Elementary School

755 Eldon Road
Oakwood, Ontario

Presented to:

Trillium Lakelands District School Board

Box 420, County Road 36
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Attention: Daniel Whalen

September 2020

Maple Project No. 18736-38

Executive Summary

2020 Asbestos-Containing Building Materials Re-Assessment Report

Maple Project	School Name	Address
18736-38	Mariposa Elementary School	755 Eldon Road, Oakwood, Ontario

Maple Environmental Inc. was retained by Trillium Lakelands District School Board to perform a re-assessment of known asbestos-containing building materials within the subject building.

The findings and recommendations of the current assessment are summarized below. Please refer to the main body of the report for details.

FINDINGS

Asbestos-containing materials (ACM) identified within the building at the time of the assessment are as follows:

ASBESTOS BUILDING MATERIALS SUMMARY								
MATERIAL		ASBESTOS			FRIABILITY		Remedial Work Required	
		Yes	No	Suspect	Friable	Non-Friable		Potentially
Sprayed Fireproofing			X		X			NO
Textured Finish			X		X			NO
Mechanical Insulations	Pipe Fittings	X			X			NO
	Pipe Straight		X		X			NO
	Ductwork		X		X			NO
	Mechanical Equip.		X		X			NO
Ceiling Tiles			X				X	NO
Vinyl Sheet Flooring			X				X	NO
Vinyl Floor Tiles			X			X		NO
Asbestos Cement (Transite)		X				X		NO
Plaster				X			X	NO
Drywall Joint Compound				X		X		NO
Other				X				NO

Please refer to Room by Room Inventory in Appendix I to view location, quantities, and condition of ACM observed within the building at the time of the assessment.

Executive Summary

2020 Asbestos-Containing Building Materials Re-Assessment Report

RECOMMENDATIONS

As asbestos-containing materials were found to be present within the building, Ontario Regulation 278/05 requires that the Trillium Lakelands District School Board's Asbestos Management Plan must apply to this building. In addition, an annual re-assessment of all ACM must be performed.

All asbestos-containing materials identified within the building were observed to be in GOOD condition and therefore no immediate recommendations are warranted.

General Statement

This report should be read in its entirety and is not a stand-alone report. Please refer to the Trillium Lakelands District School Board Overview Report provided under a separate cover to review information relevant to Regulations, Inventory Scope and Methodology, Sampling Strategies, Analytical Methods, Assessment Criteria, and the assessment limitations. Further, this Executive Summary must be read in conjunction with the main body of this report below.

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1.0 INTRODUCTION

MAPLE Environmental Inc. ("MAPLE") was retained by the Trillium Lakelands District School Board (TLDSB) to perform a re-assessment of known asbestos-containing building materials within all TLDSB schools where asbestos was previously confirmed to be present (by others).

The assessment was completed in accordance with the requirement of Ontario Regulation 278/05 to complete a re-assessment on an annual basis.

The following report presents the findings and recommendations of the assessment for the specific building listed.

SUMMARY OF BUILDING INFORMATION	
School Name:	Mariposa Elementary School
Building Address:	755 Eldon Road, Oakwood, Ontario
Number of Floors:	2 (no basement)
Approximate Square Footage:	43,200
Assessed by:	Richards Reboks
Assessment Date:	July 30, 2020

2.0 APPLICABLE ONTARIO REGULATIONS

Applicable Ontario Regulations for each of the materials included in the investigation are briefly described below.

2.1 Ontario Regulation 278/05 (Asbestos)

The Ontario Ministry of Labour Regulation 278/05 requires a detailed asbestos inventory be performed in all buildings where friable and non-friable asbestos-containing materials (ACM) are present. The inventory must be available at the work place and must identify the type and location of asbestos-containing materials on a room-by-room basis, where necessary.

Each individual building report prepared by MAPLE meets or exceeds the requirements for an asbestos survey under Ontario Regulation 278/05.

Ontario Regulation 278/05 applies to buildings with regards to maintenance, renovation or demolition work where ACM is present and may be disturbed. The regulation requires all buildings where asbestos is known to be part of the building materials to implement an Asbestos Management Program (AMP). TLDSB has prepared and maintains an AMP of which the current Re-Assessment report is part of.

2.2 Ontario Regulation 347

Ontario Regulation 347 applies to the transport of waste from the location of generation to a landfill site authorized to receive specific wastes. The regulation also prescribes procedures on how the specific wastes are to be handled at the landfill site.

The major requirements of the building owner and the person(s) removing the waste are to ensure that:

- The waste is appropriately packaged and labelled;
- The transport vehicle is appropriately placard; and
- The waste is to be transported as directly as possible to the landfill site once it leaves the site.

Some wastes require the Owner to register a Generator (of waste) number and many wastes require classification that can restrict or even prohibit their disposal in landfill.

It is important to note that the building owner can be held responsible for the waste until the waste disposal site accepts it.

3.0 SURVEY SCOPE AND METHODOLOGY

The surveys were performed on a Room-by-Room basis within each building included in the scope of the assessment where asbestos was previously identified (by others).

The scope of the surveys included all friable and major non-friable materials suspected to contain asbestos. The term friable is applied to a material that can be readily reduced to dust or powder by hand or moderate pressure. Asbestos materials that are friable have a much greater potential to release airborne asbestos fibres when disturbed.

Typical friable asbestos materials include; sprayed fireproofing or thermal insulation, textured (stippled) plaster, and thermal mechanical insulation. Typical non-friable materials include: asbestos cement (transite) products, caulking, vinyl floor tiles, asbestos textiles and gaskets. Additional materials such as ceiling tiles and drywall joint compounds are classified as non-friable, but because of their ability to release dust when disturbed they are considered as "potentially friable" for the purpose of this report.

3.1 Inventory Methodology

In order to determine the location of the materials included in the assessment, each room or area was entered where practical (i.e.: where access was possible without the demolition of walls, roof or ceilings or destruction of flooring) where asbestos materials were previously identified. An investigation of areas of the building where asbestos was not previously identified was not included in the scope of the current project.

Representative views were made above accessible suspended ceiling systems. Drywall or plaster ceilings were accessed via existing ceiling access panels only. The inventory did not include destructive testing of building systems or finishes to observe possible hidden conditions.

3.2 Asbestos Assessment Criteria

The recommendations and suggestions made as part of this report with respect to asbestos have taken into consideration the condition and accessibility of the asbestos-containing material as well as other factors such as water damage, vibration, air movement, and general activities in the area.

Where ACM is found to be in GOOD condition and not likely to deteriorate or fall, the general recommendation would be to re-evaluate the condition of the material on an annual basis (required by Regulation 278/05). This recommendation can be subject to change if the material is located in a manner that persons untrained in asbestos awareness could physically damage it.

Where the ACM is found to be damaged (i.e. FAIR or POOR condition), a recommendation to have the material cleaned-up, repaired, removed, enclosed, or encapsulated is offered. The recommendation will also indicate which asbestos procedure should be used to perform the remedial work (i.e. Type 1, Type 2, Type 3, or Glove Bag Removal Methods).

In each area or room inventoried, the quantity, condition (GOOD, FAIR, or POOR) and accessibility (A, B, C, D or E) of each suspect material was recorded.

The definitions for condition and accessibility items are as follows:

- | | |
|-----------------|---|
| GOOD | Material is intact with no visible signs of damage. |
| FAIR | Material is visibly damaged but can be repaired. |
| POOR | Material is damaged beyond repair and likely needs to be removed. |
| Access A | Accessible to all occupants of the building. |

- | | |
|-----------------|--|
| Access B | Accessible to Maintenance personnel without the use of a ladder (i.e. Mechanical Room, pipe chase etc.). |
| Access C | Accessible to Maintenance personnel with the use of a ladder and is exposed to view without removing building components. |
| Access D | Accessible to Maintenance personnel with the use of a ladder and is concealed from viewing due to a building component (i.e. above a removable ceiling). |
| Access E | Not accessible without demolition of a building component (i.e. above a fixed ceiling system). |

The asbestos related information collected during the previous assessments was confirmed and the room-by-room data updated to reflect the current information.

3.3 Limitations and Omissions from Scope

Due to the nature of building construction, some limitations exist in regards to the possible thoroughness of any building materials inventory. The field observations, measurements, and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings presented in this report. MAPLE warrants that the findings and conclusions contained herein have been made in accordance with generally accepted evaluation methods in the industry and applicable regulations at the time of the performance of the inventory.

It is possible that conditions may exist which could not be reasonably identified within the scope of the inventory or which were not apparent during the site investigation. MAPLE believes that the information collected during the inventory period concerning the property is reliable. No other warranties are implied or expressed.

In addition, during a standard asbestos assessment, performed for the purposes of regulatory compliance, it is industry practice to exclude some non-friable materials in the inventory. Examples of such assumptions include; elevator brakes, roofing felts and mastics, high voltage wiring, mechanical packing and gaskets, underground services or piping, fire-doors, window caulking, levelling compound, and/or materials used in operating equipment. As such, these materials were not sampled at the time of this survey and where present are assumed to be asbestos containing until proven otherwise.

3.4 Sampling Strategy and Analytical Methods

As the majority of materials were previously sampled by others, the requirement for sampling during the current survey was limited. Where samples were collected, they conformed to the criteria outlined below and in compliance with O. Reg. 278/05.

A small volume of the material was removed either from a damaged section or cut out of intact material and then repaired by sealing with tape to prevent the release of fibres. The collected samples were placed in plastic bags, sealed and labelled and then sent to an independent laboratory for analysis. To ensure quality results, the independent laboratory chosen is NVLAP accredited and successfully participates in an "Asbestos Proficiency Analytical Testing Program" and as such, these laboratories are responsible for their findings.

The collection of samples was performed in accordance with regulatory sampling requirements and with sufficient frequency to obtain a general pattern of asbestos use within the building. Due to building renovations or modifications that have occurred, the consistency of the application of asbestos materials may not be uniform throughout the entire building. It is important to note that without sampling every wall, pipe section, ceiling tile etc. it is not possible to identify the possible asbestos content in every material present in the building. For this reason, materials similar in appearance to those sampled elsewhere in the building were visually identified as being homogeneous and thus are assumed to be composed of the same material, thus additional sampling is not required.

In accordance with Reg. 278/05, samples were collected at the following frequency.

Material Type	No. Samples
Sprayed Fireproofing	Up to 7
Texture Coat	Up to 7
Pipe Fitting Insulation	3
Pipe Straight Insulation	3
Ductwork Insulation	3
Ceiling Tiles	3
Vinyl Sheeting Flooring	3
Vinyl Floor Tile	3
Plaster Finishes	Up to 7
Drywall Compound	Up to 7

An independent NVLAP accredited laboratory, was used to analyse the collected samples. Analysis was performed following the Code of Practice for the identification of asbestos in bulk material, as detailed in Ontario Regulation 278/05. Bulk samples were analysed using the Polarized Light Microscopy ("PLM") Technique with Dispersion Staining. The identification of asbestos fibre in bulk material is based on a collective set of parameters dependent on the unique shape and crystallographic properties of each fibre as viewed through the microscope. This method is useful for the qualitative identification of asbestos and the semi-quantitative determination of asbestos content in bulk materials expressed as a percent of projected area. The method identifies types of asbestos and also measures percent of asbestos as perceived by the analyst in comparison to standard area projections or trained experience.

Given the composition of some vinyl floor products, the PLM analysis method is often prone to yielding false negative analysis results. Therefore it may be prudent that the Transmission Electron Microscopy (TEM) analysis method be used to determine the asbestos content in the vinyl floor products, if negative results are obtain from the laboratory analysis.

3.5 Drawings

Drawings provided for each building indicate the following (where present):

- ◇ Location Numbers (reference to Room-by-Room asbestos data)
- ◇ Asbestos-Containing Sprayed Fireproofing
- ◇ Asbestos-Containing Texture Finishes
- ◇ Asbestos Containing Ceiling Tiles
- ◇ Asbestos-Containing Flooring Materials
- ◇ Presence of Asbestos-Containing Mechanical Insulations will not be specifically indicated on the drawings; however, a general statement regarding the presence of ACM mechanical insulations, where present, has been indicated on the drawings.
- ◇ Presence of asbestos-containing drywall joint compound and hard plaster will not be specifically identified on the drawings; however, a general statement regarding the presence of these ACM materials, where present, has been indicated on the drawings.

4.0 INVENTORY FINDINGS

The following is a brief discussion of the extent to which Asbestos-Containing Materials (ACM) was identified in the building. The discussion is organized under the headings of materials that are generally suspected of containing asbestos. Refer to the Room-by-Room Survey Inventory in Appendix I for a detailed description and location of all ACM.

Destructive testing was not conducted and as such some areas within the building were not accessible for an assessment (i.e. above solid ceilings, behind walls). Access for viewing within wall and ceiling cavities was not always possible. Suspect asbestos materials may be present within ceiling and wall cavities that were not identified in this report. This comment is particularly important for materials such as mechanical insulation. Caution should be taken when demolishing solid wall finishes within the building.

4.1 Sprayed Fireproofing (Friable)

No sprayed fireproofing was observed in the building.

4.2 Thermal Mechanical Insulation (Friable)

Asbestos and non-asbestos mechanical insulations were identified in the building. A brief description of the insulations is provided below categorized by mechanical system type. Further, it is important to note that mechanical systems may be present within walls and ceiling cavities or pipe chases that were not accessible during this assessment. The presence of ACM mechanical insulations in these locations should be suspected.

Pipe Systems:

Pipe Fittings, including elbows, valves, tees, hangers, etc. where insulated are insulated with parging cement previously confirmed to contain Chrysotile asbestos or are insulated with non-asbestos materials (i.e. Fibreglass). All pipe fittings were found to be in GOOD condition.

Pipe Straights, where insulated are insulated with non-asbestos fibreglass and/or armaflex materials.

Ductwork:

Duct systems were either insulated with non-asbestos fibreglass or were un-insulated.

Mechanical Equipment:

Mechanical equipment was observed to be externally un-insulated.

4.3 Texture Finish (Friable)

No asbestos-containing texture finishes were identified to be present within the building.

4.4 Acoustic Ceiling Tiles (Potentially Friable)

No asbestos-containing ceiling tiles were identified to be present within the building.

4.5 Vinyl Sheet Flooring (Potentially Friable)

No asbestos-containing vinyl sheet flooring was identified to be present within the building.

4.6 Vinyl Floor Tile (Non-Friable)

Non-asbestos vinyl floor tile systems were identified within the surveyed area at the time of the assessment. All asbestos-containing vinyl floor tiles that were previously identified in the building were removed as part of a renovation project completed during the summer of 2019.

4.7 Asbestos Cement Products "Transite" (Non-Friable)

Asbestos-containing Transite is present in the form of panels on the exterior soffit. All transite was found to be in GOOD condition. Refer to the Room-by-Room Inventory in Appendix I for details regarding location and quantity.

4.8 Drywall Joint Compound (DJC)

While previous sample results indicated drywall joint compound sampled at the Site does not contain asbestos, it should be noted that the concentration of asbestos within drywall joint compound is historically known to be potentially inconsistently distributed. Further, it is possible that various phases of construction and renovations have occurred at the Site. Therefore, the number of samples previously collected may not be representative of all drywall joint compound finishes in the building.

4.9 Plaster

No plaster finishes were identified in the building.

5.0 RECOMMENDATIONS

5.1 General Recommendations

Due to the presence of ACM within the building, TLDSB must maintain their existing Asbestos Management Program for this property.

A re-assessment of known ACM is to be conducted at least once annually.

It is important to note that due to the presence of solid walls and ceiling systems, ACM may be present in concealed locations not identified in this report.

The assessment confirmed the presence of ACM mechanical insulations within the building (Refer to room-by-room Inventory for condition and quantities). Should any proposed renovations likely cause disturbance of the mechanical insulations, the materials would require removal using Type 2, Type 3 or Glove Bag Asbestos procedures as appropriate for the work being performed.

Removal or disturbance of transite cement products requires the use of Type 1 Asbestos Abatement Procedures (provided no power tools are used and the material is wetted). If power tools are required Type 3 Asbestos Abatement Procedures need be applied.

Materials suspected of containing asbestos should be sampled prior to disturbance. Suspect materials include; drywall joint compound, plaster, roofing materials, caulking, etc. unless previously confirmed to contain asbestos.

5.2 Specific Recommendations

All asbestos-containing materials identified within the building were observed to be in GOOD condition and therefore no immediate recommendations are warranted.

6.0 LIMITATIONS

Due to the nature of building construction some limitations exist as to the possible thoroughness of the subject investigation. The field observations are considered sufficient in detail and scope to form a reasonable basis for the findings presented in this report. MAPLE warrants that the findings and conclusions contained herein have been made in accordance with generally accepted evaluation methods in the industry and applicable regulations at the time of the performance of the assessment.

It is possible that conditions may exist which could not be reasonably identified within the scope of the investigation or which were not apparent during the site investigation. MAPLE believes that the information collected during the investigation period concerning the property is reliable. No other warranties are implied or expressed.

Information provided by Maple is intended for Client use only. Any use by a third party, of reports or documents authored by Maple, or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Maple accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted.

The liability of Maple or its staff will be limited to the lesser of the fees paid or actual damages incurred by the Client. Maple will not be responsible for any consequential or indirect damages. Maple will only be liable for damages

resulting from negligence of Maple; all claims by the Client shall be deemed relinquished if not made within two years after last date of services provided.

Please contact Maple Environmental Inc. at (905) 257-4408 for inquiries regarding this project.

Sincerely,

MAPLE ENVIRONMENTAL INC.
Environment, Health and Safety Consultants

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APPENDIX I
ROOM-BY-ROOM ASBESTOS INVENTORY

APPENDIX I - ROOM BY ROOM ASBESTOS INVENTORY

	STRUCTURAL ELEMENT		ACCESSIBILITY		TERMINOLOGY					
	RF: Roof WN: Window FL: Floor CL: Ceiling WL: Wall DK: Deck	BU: Beams/Joists CB: Chalkboard PI: Pipe DT: Duct BL: Boiler MC: Mechanical	A: All occupants of the facility B: Maintenance staff without a ladder C: Maintenance staff with a ladder, exposed to view without moving building components D: Maintenance staff with a ladder, concealed from view by building components E: No access without demolition or removal of fixed building components or systems		ACM: Asbestos Containing Material CT: Ceiling Tile DJC: Drywall Joint Compound FTG: Fitting LF: Linear Feet	N/A: Not Applicable N/Anz: Not Analyzed N/D: None Detected PI-AC: Pipe Insulation - Aircell PI-PC: Pipe Insulation-Paraging Cement PI-CP: Pipe Insulation-Capstone	PL: Plaster RM: Roofing Materials SFP: Sprayed Fireproofing SF: Square Feet TF: Texture Finish	TB: Transite Board TP: Transite Pipe Vt: Vermiculite Insulation VFT: Vinyl Floor Tile	VSF: Vinyl Sheet Flooring V/C: Visually Consistent w/ Other Sampled Material WC: Window Caulking	
CONDITION G: Good F: Fair P: Poor										


ID	Facility	Floor #	Room #	Room name	Has ACM	Frivable	Struct. Elem.	Application	Material	Type	Qty	Condition	Sample #	Action	Ref #	Comments 1	Comments 2	Comments 3	Notes
46300	Mariposa Elementary School	1	102	Gym	No	No	FL	VSF	1	N/D			30-BS-09A-C						
46302	Mariposa Elementary School	1	102	Gym	Yes	Yes	PI	PI-PC		80% CHRYSOTILE	3 Fittings	G	V/C 30-BS-12			C			
46304	Mariposa Elementary School	1	102A	Equipment Room	No			NO ACM											No suspected material
46307	Mariposa Elementary School	1	102B	Gym Storage	No	No	FL	VFT	3	2% CHRYSOTILE			V/C 30-BS-06						Flooring removed in 2016.
46308	Mariposa Elementary School	1	102B	Gym Storage	No	No	WL	DJC	2	N/D			30-BS-02						
46309	Mariposa Elementary School	1	102B	Gym Storage	No	No	WL	PL		N/D			V/C 30-BS-03						
46310	Mariposa Elementary School	1	102B	Gym Storage	No	No	CL	DJC	1	N/D			V/C 30-BS-02						
46319	Mariposa Elementary School	1	103	Kitchen & Stage Entrance 4	No	-	FL	VFT								Abated	Maple Project No. 18121		
46320	Mariposa Elementary School	1	103	Kitchen & Stage Entrance 4	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46301	Mariposa Elementary School	1	104	Stage	No	No	FL	VSF	1	N/D			30-BS-09A-C						
46303	Mariposa Elementary School	1	104	Stage	No	-	PI	PI-PC								Abated	Maple Project No. 18121		
46311	Mariposa Elementary School	1	105	Hallway - H1	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46312	Mariposa Elementary School	1	106	Electrical/Storage Room 1 by H1	No	No	WL	DJC	1	N/D			V/C 30-BS-02						
46313	Mariposa Elementary School	1	106	Electrical/Storage Room 1 by H1	No	No	WL	PL		N/D			V/C 30-BS-03						
46314	Mariposa Elementary School	1	106	Electrical/Storage Room 1 by H1	No	Yes	CL	CT	1	N/D			30-BS-07C						
46315	Mariposa Elementary School	1	107	Boy's Change Room-2 by H1	No	-	FL	VFT								Abated	Maple Project No. 18121		
46316	Mariposa Elementary School	1	107	Boy's Change Room-2 by H1	No	Yes	CL	CT	1	N/D			V/C 15-BS-07						
46317	Mariposa Elementary School	1	108	Girl's Change Room-3 by H1	No	-	FL	VFT								Abated	Maple Project No. 18121		
46318	Mariposa Elementary School	1	108	Girl's Change Room-3 by H1	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46305	Mariposa Elementary School	1	109	Hallway - H2	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46306	Mariposa Elementary School	1	109	Hallway - H2	No	No	WL	DJC		N/D			30-BS-01E						
46328	Mariposa Elementary School	1	110	Girl's Washroom by H2	No	Yes	CL	CT	2	N/D			V/C 30-BS-10						
46329	Mariposa Elementary School	1	110A	Pipe Shaft by Boy's W/R -7	Yes	Yes	PI	PI-PC		80% CHRYSOTILE	3 Fittings	G	V/C 30-BS-12			C			
46330	Mariposa Elementary School	1	110A	Pipe Shaft by Boy's W/R -7	No	No	FL	VFT	2	N/D			V/C 30-BS-05						
46331	Mariposa Elementary School	1	110A	Pipe Shaft by Boy's W/R -7	No	Yes	CL	CT	2	N/D			V/C 30-BS-10						
46327	Mariposa Elementary School	1	112	Boy's Washroom by H2	No	Yes	CL	CT	2	N/D			30-BS-10A-C						
46324	Mariposa Elementary School	1	112A	Generator Room-7A	No	-	FL	VFT								Abated	Maple Project No. 18121		
46325	Mariposa Elementary School	1	112A	Generator Room-7A	No	No	CL	DJC		N/D			V/C 30-BS-02						
46326	Mariposa Elementary School	1	112A	Generator Room-7A	No	Yes	PI	PI-PC		80% CHRYSOTILE			30-BS-12A-C						Abated
46335	Mariposa Elementary School	1	114	Entrance & Hallway-H3	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46336	Mariposa Elementary School	1	114	Entrance & Hallway-H3	No	No	CL	DJC	1	N/D			V/C 30-BS-01						
46337	Mariposa Elementary School	1	114	Entrance & Hallway-H3	No	Yes	CL	CT	2	N/D			V/C 30-BS-10						
46340	Mariposa Elementary School	1	115	Room-10	No	No	FL	VFT	2	N/D			V/C 30-BS-05						
46341	Mariposa Elementary School	1	115	Room-10	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46342	Mariposa Elementary School	1	116	Room-11	No	No	FL	VFT	1	N/D			30-BS-04B						
46343	Mariposa Elementary School	1	116	Room-11	No	Yes	CL	CT	1	N/D			30-BS-07B						
46344	Mariposa Elementary School	1	116	Room-11	No	No	WL	DJC	1	N/D			30-BS-01D						
46348	Mariposa Elementary School	1	117	Room-12	No	No	FL	VFT	2	N/D			V/C 30-BS-05						
46349	Mariposa Elementary School	1	117	Room-12	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46350	Mariposa Elementary School	1	117	Room-12	No	No	WL	DJC	1	N/D			V/C 30-BS-01						
46345	Mariposa Elementary School	1	117A	Storage Room-12A	No	No	FL	VFT	3				30-BS-06B-C						Replaced VFT-12x12 White with grey specks
46346	Mariposa Elementary School	1	117A	Storage Room-12A	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46347	Mariposa Elementary School	1	117A	Storage Room-12A	No	No	WL	DJC	1	N/D			V/C 30-BS-01						

APPENDIX I - ROOM BY ROOM ASBESTOS INVENTORY

	STRUCTURAL ELEMENT		ACCESSIBILITY		TERMINOLOGY					
	RF: Roof WN: Window FL: Floor CL: Ceiling WL: Wall DK: Deck	BU: Beams/Joists CB: Chalkboard PI: Pipe DT: Duct BL: Boiler MC: Mechanical	A: All occupants of the facility B: Maintenance staff without a ladder C: Maintenance staff with a ladder, exposed to view without moving building components D: Maintenance staff with a ladder, concealed from view by building components E: No access without demolition or removal of fixed building components or systems		ACM: Asbestos Containing Material CT: Ceiling Tile DJC: Drywall Joint Compound FTG: Fitting LF: Linear Feet	N/A: Not Applicable N/Anz: Not Analyzed N/D: None Detected PI-AC: Pipe Insulation - Aircell PI-PC: Pipe Insulation-Paraging Cement PI-CP: Pipe Insulation-Capstone	PL: Plaster RM: Roofing Materials SFP: Sprayed Fireproofing SF: Square Feet TF: Texture Finish	TB: Transite Board TP: Transite Pipe Vt: Vermiculite Insulation VFT: Vinyl Floor Tile	VSF: Vinyl Sheet Flooring V/C: Visually Consistent w/ Other Sampled Material WC: Window Caulking	
CONDITION G: Good F: Fair P: Poor										


ID	Facility	Floor #	Room #	Room name	Has ACM	Frivable	Struct. Elem.	Application	Material	Type	Qty	Condition	Sample #	Action	Ref #	Comments 1	Comments 2	Comments 3	Notes
46352	Mariposa Elementary School	1	118	Room-13	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46353	Mariposa Elementary School	1	118	Room-13	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46354	Mariposa Elementary School	1	118	Room-13	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46355	Mariposa Elementary School	1	119	Room-14	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46356	Mariposa Elementary School	1	119	Room-14	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46357	Mariposa Elementary School	1	119	Room-14	No	No	WL	DJC	1	N/D			30-B5-01C						
46358	Mariposa Elementary School	1	120	Room-15 & 15A	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46360	Mariposa Elementary School	1	120	Room-15 & 15A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46362	Mariposa Elementary School	1	120	Room-15 & 15A	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46359	Mariposa Elementary School	1	120A	Room-15 & 15A	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46361	Mariposa Elementary School	1	120A	Room-15 & 15A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46363	Mariposa Elementary School	1	120A	Room-15 & 15A	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46351	Mariposa Elementary School	1	121	Hallway-H4	No	Yes	CL	CT	2	N/D			V/C 30-B5-10						
46364	Mariposa Elementary School	1	122	Room-16	No	Yes	CL	CT	1	N/D			V/C 15-B5-07						
46365	Mariposa Elementary School	1	122	Room-16	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46366	Mariposa Elementary School	1	123	Hallway-H5	No	Yes	CL	CT	1	N/D			V/C 15-B5-07						
46367	Mariposa Elementary School	1	123	Hallway-H5	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46370	Mariposa Elementary School	1	124	Room-17	No	No	FL	VFT	1	N/D			30-B5-04C						
46371	Mariposa Elementary School	1	124	Room-17	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46372	Mariposa Elementary School	1	124	Room-17	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46368	Mariposa Elementary School	1	125	Stairs-S1 (Entrance to H5)	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46369	Mariposa Elementary School	1	125	Stairs-S1 (Entrance to H5)	No	No	CL	DJC		N/D			30-B5-01A						
46373	Mariposa Elementary School	1	126	Room-18	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46374	Mariposa Elementary School	1	126	Room-18	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46375	Mariposa Elementary School	1	126	Room-18	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46376	Mariposa Elementary School	1	127	Room-19	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46377	Mariposa Elementary School	1	127	Room-19	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46378	Mariposa Elementary School	1	127	Room-19	No	No	WL	DJC	1	N/D			30-B5-01F						
46321	Mariposa Elementary School	1	131	Offices & Reception	No	No	FL	VFT	4	N/D			30-B5-08A-C						
46322	Mariposa Elementary School	1	131	Offices & Reception	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46323	Mariposa Elementary School	1	131	Offices & Reception	No	Yes	CL	CT	2	N/D			V/C 30-B5-10						
46338	Mariposa Elementary School	1	133	Room-9	No	No	FL	VFT	3	2% CHRYSOTILE			30-B5-06A						Flooring removed 2016.
46339	Mariposa Elementary School	1	133	Room-9	No	Yes	CL	CT	2	N/D			V/C 30-B5-10						
46332	Mariposa Elementary School	1	134	Class Room-8	No	No	FL	VFT	3				V/C 30-B5-06						Replaced VFT-12x12 White with grey specks
46333	Mariposa Elementary School	1	134	Class Room-8	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46334	Mariposa Elementary School	1	134	Class Room-8	No	No	WL	DJC		N/D			V/C 30-B5-02						
	Mariposa Elementary School	1	136	Office	No	No	WL	DJC		N/D			18805F-S01A-C						
46448	Mariposa Elementary School	2	201	Stairs-S1 (Entrance to H7)	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46452	Mariposa Elementary School	2	203	Storage-36 by H7	No	-	FL	VFT								Abated	Maple Project No. 18121		
46453	Mariposa Elementary School	2	203	Storage-36 by H7	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46449	Mariposa Elementary School	2	204	Room-35	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46450	Mariposa Elementary School	2	204	Room-35	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46451	Mariposa Elementary School	2	204	Room-35	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46437	Mariposa Elementary School	2	204A	Storage Room-34A	No	No	FL	VFT	3	2% CHRYSOTILE			V/C 30-B5-06						Abated VFT replaced with new VFT
46439	Mariposa Elementary School	2	204A	Storage Room-34A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46441	Mariposa Elementary School	2	204A	Storage Room-34A	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46438	Mariposa Elementary School	2	205	Room 34	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46440	Mariposa Elementary School	2	205	Room 34	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46436	Mariposa Elementary School	2	205	Room 34 & Storage Room-34A	No	No	FL	VFT	3	2% CHRYSOTILE			V/C 30-B5-06						Abated VFT replaced with new VFT
46444	Mariposa Elementary School	2	206	Hallway-H10	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46445	Mariposa Elementary School	2	206	Hallway-H10	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46427	Mariposa Elementary School	2	207	Library-33	No	No	FL	VFT	1	N/D			V/C 30-B5-04						VFTS was not observed in room 33A
46430	Mariposa Elementary School	2	207	Library-33	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46433	Mariposa Elementary School	2	207	Library-33	No	No	WL	DJC	1	N/D			V/C 30-B5-01						

APPENDIX I - ROOM BY ROOM ASBESTOS INVENTORY

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CONDITION G: Good F: Fair P: Poor										

ID	Facility	Floor #	Room #	Room name	Has ACM	Frivable	Struct. Elem.	Application	Material	Type	Qty	Condition	Sample #	Action	Ref #	Comments 1	Comments 2	Comments 3	Notes
46428	Mariposa Elementary School	2	207A	Work Room -33A	No	No	FL	VFT	1	N/D			V/C 30-B5-04						VFT5 was not observed in room 33A
46431	Mariposa Elementary School	2	207A	Work Room -33A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46434	Mariposa Elementary School	2	207A	Work Room -33A	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46429	Mariposa Elementary School	2	207B	Seminar Room-33B	No	No	FL	VFT	1	N/D			V/C 30-B5-04						VFT5 was not observed in room 33A
46432	Mariposa Elementary School	2	207B	Seminar Room-33B	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46435	Mariposa Elementary School	2	207B	Seminar Room-33B	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46418	Mariposa Elementary School	2	208	Room-32	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46421	Mariposa Elementary School	2	208	Room-32	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46424	Mariposa Elementary School	2	208	Room-32	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46419	Mariposa Elementary School	2	208A	Storage Room- 32A	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46422	Mariposa Elementary School	2	208A	Storage Room- 32A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46425	Mariposa Elementary School	2	208A	Storage Room- 32A	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46420	Mariposa Elementary School	2	208B	Storage Room- 32B	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46423	Mariposa Elementary School	2	208B	Storage Room- 32B	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46426	Mariposa Elementary School	2	208B	Storage Room- 32B	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46417	Mariposa Elementary School	2	209	Girl's WR-31 by H9	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46415	Mariposa Elementary School	2	210	Storage-30 by H9	No	-	FL	VFT								Abated	Maple Project No. 18121		
46416	Mariposa Elementary School	2	210	Storage-30 by H9	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46414	Mariposa Elementary School	2	211	Boy's WR-29 by H9	No	Yes	CL	CT	2	N/D			V/C 30-B5-10						
46381	Mariposa Elementary School	2	212	Room-28 by H9	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46379	Mariposa Elementary School	2	213	Hallway-H9	No	Yes	CL	CT	1	N/D			V/C 15-B5-07						
46380	Mariposa Elementary School	2	214	Stairs-52 (Entrance to H9)	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46410	Mariposa Elementary School	2	215	Room-27	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46412	Mariposa Elementary School	2	215	Room-27	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46411	Mariposa Elementary School	2	215A	Storage-27A	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46413	Mariposa Elementary School	2	215A	Storage-27A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46407	Mariposa Elementary School	2	216	Room-26	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46408	Mariposa Elementary School	2	216	Room-26	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46409	Mariposa Elementary School	2	216	Room-26	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46442	Mariposa Elementary School	2	217	Hallway-H8	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46443	Mariposa Elementary School	2	217	Hallway-H8	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46402	Mariposa Elementary School	2	218	Room-25	No	No	FL	VFT	2	N/D			30-B5-05A						
46403	Mariposa Elementary School	2	218	Room-25	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46404	Mariposa Elementary School	2	218	Room-25	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46405	Mariposa Elementary School	2	218A	Storage Room-25A	No	-	FL	VFT								Abated	Maple Project No. 18121		
46406	Mariposa Elementary School	2	218A	Storage Room-25A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46399	Mariposa Elementary School	2	219	Room-24	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46400	Mariposa Elementary School	2	219	Room-24	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46401	Mariposa Elementary School	2	219	Room-24	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46396	Mariposa Elementary School	2	220	Room-23	No	No	FL	VFT	2	N/D			30-B5-05B						
46397	Mariposa Elementary School	2	220	Room-23	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46398	Mariposa Elementary School	2	220	Room-23	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46393	Mariposa Elementary School	2	221	Room-22	No	No	FL	VFT	2	N/D			V/C 30-B5-05						
46394	Mariposa Elementary School	2	221	Room-22	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46395	Mariposa Elementary School	2	221	Room-22	No	No	WL	DJC	1	N/D			V/C 30-B5-01						
46391	Mariposa Elementary School	2	221A	Storage Room-21A	No	No	FL	VFT	3	2% CHRYSOTILE			V/C 30-B5-06						Abated VFT replaced with new VFT
46392	Mariposa Elementary School	2	221A	Storage Room-21A	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46388	Mariposa Elementary School	2	222	Room-21	No	No	FL	VFT	2	N/D			30-B5-05C						
46389	Mariposa Elementary School	2	222	Room-21	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46390	Mariposa Elementary School	2	222	Room-21	No	No	WL	DJC	1	N/D			30-B5-01B						
46446	Mariposa Elementary School	2	223	Hallway-H7	No	Yes	CL	CT	1	N/D			V/C 30-B5-07						
46447	Mariposa Elementary School	2	223	Hallway-H7	No	No	WL	DJC	1	N/D			V/C 30-B5-01						

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	CONDITION G: Good F: Fair P: Poor							

ID	Facility	Floor #	Room #	Room name	Has ACM	Friable	Struct. Elem.	Application	Material	Type	Qty	Condition	Sample #	Action	Ref #	Comments 1	Comments 2	Comments 3	Notes
46382	Mariposa Elementary School	2	224	Room-20	No	No	FL	VFT	2	N/D			V/C 15-BS-05						VFT-1 Reported in previous report- Observed VFT-2
46384	Mariposa Elementary School	2	224	Room-20	No	Yes	CL	CT	1	N/D			30-BS-07A						
46386	Mariposa Elementary School	2	224	Room-20	No	No	WL	DJC	1	N/D			V/C 30-BS-01						
46383	Mariposa Elementary School	2	224A	Storage 20A	No	No	FL	VFT	2	N/D			V/C 15-BS-05						VFT-1 Reported in previous report- Observed VFT-2
46385	Mariposa Elementary School	2	224A	Storage 20A	No	Yes	CL	CT	1	N/D			30-BS-07A						
46387	Mariposa Elementary School	2	224A	Storage 20A	No	No	WL	DJC	1	N/D			V/C 30-BS-01						
46454	Mariposa Elementary School	2	225	Room-37	No	No	FL	VFT	2	N/D			V/C 30-BS-05						VFT-3 Reported in previous report- Observed VFT-2
46455	Mariposa Elementary School	2	225	Room-37	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46456	Mariposa Elementary School	2	225	Room-37	No	No	WL	DJC	1	N/D			V/C 30-BS-01						
46457	Mariposa Elementary School	2	226	Room 38	No	-	FL	VFT								Abated	Maple Project No. 18121		
46458	Mariposa Elementary School	2	226	Room 38	No	Yes	CL	CT	1	N/D			V/C 30-BS-07						
46459	Mariposa Elementary School	2	226	Room 38	No	No	WL	DJC	1	N/D			V/C 30-BS-01						
46296	Mariposa Elementary School	NA		EXTERIOR	No	No	RF	RM	NA	ACM ASSUMED	1	G	NS			C			sample prior to renovation
46297	Mariposa Elementary School	NA		EXTERIOR	No	No	WN	WC	NA	ACM ASSUMED	1	G	NS			A, C			sample prior to renovation
46298	Mariposa Elementary School	NA		EXTERIOR	No	No	WL	PL		N/D			30-BS-03A-G						
46299	Mariposa Elementary School	NA		EXTERIOR	Yes	No		TB	NA	ACM ASSUMED	1	G	NS			A, C			

APPENDIX II

DRAWINGS

Please Note:
Asbestos-containing transite board (TB) is
suspected to be present on the building exterior



LEGEND

12578-38-01A

Previous ECOH Sample Locations

13997-01-01A

2012 ECOH Sample Locations

01-BS-01A

Jacques Whitford Sample Locations

#

Ebase Number

CONFIRMED ACM

SYMBOL

DESCRIPTION

Friable Asbestos-Containing Material

Non-Friable Asbestos-Containing Material

PI

Pipe Insulation (Friable Asbestos-Containing Material)

CT

Ceiling Tile (Friable Asbestos-Containing Material)

VFT

Vinyl Floor Tile (Non-Friable Asbestos-Containing Material)

NOTE

Transite Board

For Detailed Information as to Location, Type, Quantity, Condition and Access to ACM, Please Refer to the Room-by-Room Sheets Provided in the Report.

Mariposa Elementary School

755 Eldon Road

Oakwood, Ontario

Second Floor Plan

Asbestos Materials Re-Assessment Survey

CLIENT:

Trillium Lakelands District School Board

PROJECT NUMBER:

18736-38

DATE:

September 2020

DRW BY:

S. Prosser

SCALE:

Not to Scale

CHK BY:

K. Prosser

MAPLE ENVIRONMENTAL INC.

ENVIRONMENT, HEALTH & SAFETY CONSULTANTS

APPENDIX III

POTENTIAL ASBESTOS-CONTAINING MATERIAL
IDENTIFICATION SHEET

APPENDIX III - POTENTIAL ASBESTOS-CONTAINING MATERIALS INFORMATION SHEET

<i>MIN</i>	<i>Material</i>	<i>Material Description</i>	<i>Size</i>	<i>Sample Number</i>	<i>Sample Location</i>	<i>Asbestos Containing</i>
VFT-1	Vinyl Floor Tiles	Light grey with grey and white smears	12x 12	30-BS-04A-C	Room 20, 11 & 17	None
VFT-2	Vinyl Floor Tiles	Brown with grey smears	12x 12	30-BS-05A-C	Room 25, 23 & 21	None
VFT-3	Vinyl Floor Tiles	Cream with grey Streaks	12x 12	30-BS-06A-C	Room 9 & 12A	2% Chrysotile
VFT-4	Vinyl Floor Tiles	Light green with grey and white smears	12 x 12	30-BS-08A-C	Office A, B & C	None
VFT-5	Vinyl Floor Tiles	Taupe	12 x 12	30-BS-11A-C	Room 2, 3 & 7A	7% Chrysotile
CT-1	Ceiling Tiles	Plainhole pattern	2 x 2	30-BS-07A-C	Room 20, 11 & 20	None
CT-2	Ceiling Tiles	Small fissure pimhole pattern	2 x 4	30-BS-10A-C	Room 7	None
VSF-1	Vinyl Sheet Flooring			30-BS-09A-C	Gym	None
PI-PC	Pipe Insulation	Parging Cement		30-BS-12A-C	Room 7A	80% Chrysotile