ASBESTOS SURVEY,
Ross Road School
336 Ross Rd.
Dartmouth, N.S., B2Z 1H2

Prepared by:

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INTRODUCTION

The Halifax Regional School Board has undertaken a mandate to conduct asbestos inventories in each of the schools in the School Board region. Maritime Testing (1985) Limited (MTL) was retained by the Board to conduct these inventories and prepare the asbestos survey reports. This report on Ross Road School represents one of the schools surveyed as part of this comprehensive inventory.

METHODS

Each school was inspected for building materials that might be composed of asbestos containing minerals (ACMs). Types of materials examined and sampled as needed could include but not necessarily be limited to:

mechanical systems:	insulation on pipes, fittings, boilers, air conveyance systems, structural materials
flooring:	sheet flooring, vinyl tiles
ceilings:	suspended ceilings, rigid ceilings, texture coats
walls:	texture coats, wallboards, plasters
building exterior:	wall panels, panels under entrances

Please note the following limitations regarding these surveys:

1. Sampling and inspection was not conducted if permanent visible damage would result from these activities. In such circumstances, inference is made to the potential for ACMs to be present based upon other observations made in the building (for example, holes are not cut into wall cavities to determine if insulated pipe work is present).

2. In each school, every room that was accessible was surveyed. In cases where access to a room was not possible, inference on that room is made based on what was observed throughout the rest of the school.

3. Plaster, unlike many other materials in schools such as floor tiles, ceiling tiles, etc., was originally fabricated on site. Each batch, which typically would be wheel barrow sized, could potentially be a bit different from the next. Asbestos, typically chrysotile, was used as well as other materials (hairs, wood) as a strengthening material and was applied “in shovelfuls” more or less at the discretion of the worker. Samples collected routinely in schools are based upon perceived differences in texture, age of construction, etc., and may not reflect small differences from one

batch to another, particularly since sample sizes are kept small to reduce damage. Accordingly, samples of plaster identified as not containing asbestos may well not be precisely indicative of the overall composition of the plaster in general. As a result, plaster should be assumed to contain asbestos unless a specific sample from the area in question has been analysed and shown to be asbestos free.

All inspections were scheduled such that sampling could be conducted after normal school hours. This school was surveyed on January 6, 1999.

Samples collected at the school were examined under both stereo and polarised light microscopy to determine fibre types and relative percentages of each asbestos mineral if it was present. As well, any ACMs were further categorised into one of three categories as noted below:

Priority 1: materials representing a potential health risk with normal routine building use and which require immediate removal. Such materials may include damaged ceiling tiles, damaged pipe insulation, damaged friable boiler insulation.

Priority 2: materials which do not pose a health risk under normal school usage but which pose a periodic risk to maintenance and custodial staff or which are currently undamaged but which might easily be damaged in the future; these materials require removal during the next suitable time (ie a major school break, next planned renovation project). Such materials may include undamaged ceiling tiles, damaged pipe insulation above ceilings, undamaged texture coats.

Priority 3: Non-friable materials or materials that are in good condition, are not generally accessible, and which currently pose no risk to any occupant. Such materials may include floor tiles, transite panels, mechanical insulation in good repair.

Refer to Appendix A for a summary of the Priorities of the ACMs.

All data are also available on an asbestos inventory data base accessible from the school board offices prepared specifically by MTL for this project.

For a list of materials sampled, refer to Appendix B. Refer to Appendix C for diagram of school floor plan and sample locations. For a list locations and quantities of asbestos containing materials, refer to Appendix D. Refer to Appendix E for room by room account of ACM's. Refer to Appendix F for photos of Priority 1 ACMs.

INVENTORY RESULTS.

Boiler Room: None of the materials in the Boiler Room contain asbestos.

Exterior: None of the materials on the exterior contain asbestos.

Floors: Floors are covered with a combination of various coloured 9" and 12" vinyl floor tiles and seamless flooring. The seamless floorings in the school have a paper backing that contains >75% chrysotile asbestos. The floors are in good condition and a Priority 3. None of the other floor materials in this school contain asbestos.

Walls: None of wall materials in this school contain asbestos.

Ceilings: The panels in the cafeteria kitchen storage area are asbestos transite panel (35% chrysotile). The panels are in good condition and a Priority 3. None of the other ceiling materials in this school contain asbestos.

Pipe Systems: The pipes throughout the school are insulated with fibreglass on the runs and fibreglass or cement on the elbows. The cement on the elbows contains 60% chrysotile asbestos. Elbows located above the ceiling are a Priority 3 and below the ceiling are a Priority 2.

Appendix A:

Summary: The following is a summary of Priority of the various ACMs at this school:

Priority 1: • none

Priority 2: • asbestos cement on pipe elbows below the ceiling

Priority 3: • asbestos cement on pipe elbows above the ceiling

. Kitchen Cafeteria Storage Room, transite ceiling panels

• Kitchen Cafeteria, A.V. Storage and Rooms 122 and 123, paper backing on seamless floor covering

Appendix B:

Samples taken and locations			
#	Sample description	Location	ACM
	Boiler Room		
17.18	Cement on boiler exhaust	boiler room	no
17.19	Cement on pipe elbow	heating return line	no
17.20	Cement on pipe elbow	heating supply line	no
	Exterior		
	no samples		
	Floors		
17.2	12" tile, blue with dark streaks	Room 111	no
17.3	12" tile, gray with white streaks	Room 111	no
17.4	12" tile, lime with white streaks	Hallway	no
17.5	12" tile, mustard yellow with light brown streaks	Room 109	no
17.7	12" tile, off-white with brown and gray fleck	Room 103	no
17.9	12" tile, “brick” color with black streaks	Room 108	no
17.10	12" tile, white with gray fleck	1st floor washroom	no
17.12	12" tile, gray	1st level hallway	no
17.13	Seamless floor covering	cafeteria	yes
17.14	12" tile, off-white with gray streaks	kitchen	no
17.16	12" tile, dark blue with light blue fleck	office	no
17.17	12" tile, dark blue with blue and white fleck	office	no
17.21	12" tile, brown with white fleck	Gym Storage	no
17.22	12" tile, off-white with brown fleck	Room 138	no
17.24	12" tile, light brown with brown fleck	office	no
17.26	12" tile, “brick” color with white streaks	Room 116	no
17.27	Seamless floor covering, brown	Room 122	yes

17.28	Seamless floor covering	Room 123	yes
17.29	12" tile, brown with white streaks	Room 124	no
17.30	12" tile, olive with white streaks	Room 125	no
17.31	12" tile, off-white with brown and white streaks	Room 121	no
17.32	9 " tile, olive with white fleck	Teachers Room	no
17.33	9" tile, brown with white and green fleck	Teachers Room	no
17.34	9" tile, green with white streaks	Teachers Room	no
17.35	9" tile, gray with white streaks	Teachers Room	no
17.37	12" tile, gray with gray flecks	stairwell	no
	Walls		
	no samples		
	Ceilings		
17.1	2'x4' suspended tile	Room 112	no
17.8	2'x4' suspended tile	Room 103	no
17.15	Hardboard panel	Cafeteria Kitchen Storage Room	yes
17.23	2'x2' suspended tile	hallway	no
17.25	2'X4' suspended tile	Room 140	no
17.31	2'x4' suspended tile	Room 128	no
	Pipes		
17.6	Cement on pipe elbow	Janitor's Room	yes
17.11	Cement on pipe elbow	above ceiling in hallway	yes
17.18	Cement on pipe elbow	above ceiling Room 214	no
17.36	Cement on pipe elbow	gymnasium	yes

Appendix C:
Floor Plan and Sample Locations

Appendix D:

Locations and Quantities of ACMs.

Boiler Room

Description	Locations	Quantity
no ACMs		

Exterior

Description	Locations	Quantity
no ACMs		

Floors

Description	Locations	Quantity (ft.^{2})
seamless flooring	Cafeteria	2160
seamless flooring, brown	Room 122	240
seamless flooring,	Room 123	416
seamless flooring	A.V Storage Room	68

Walls

Description	Locations	Quantity
no ACM wall materials		

Ceilings

Description	Locations	Quantity (ft.$^{2)}$)
transite panels	Cafeteria Kitchen Storage Room	48

Pipes

Description	Locations	Quantity
asbestos cement on pipe elbow	Room 104, below ceiling	12
asbestos cement on pipe elbow	Air Handling Room, below ceiling	4
asbestos cement on pipe elbow	lower level hallway, above ceiling	4
asbestos cement on pipe elbow	Kitchen	4
asbestos cement on pipe elbow	Hall to Cafeteria	24
asbestos cement on pipe elbow	Main Hallway in front, above ceiling	5
asbestos cement on pipe elbow	Room 115, below ceiling	15
asbestos cement on pipe elbow	Gym Storage, below ceiling	4
asbestos cement on pipe elbow	Room 136, above ceiling	2
asbestos cement on pipe elbow	Lumber Storage, below ceiling	2
asbestos cement on pipe elbow	Room 214, below ceiling	11

Appendix E:

ACM's Room by Room (for quantities refer to Appendix D).

Room	ACMs
Air Handling Room, below ceiling	asbestos cement on pipe elbow
lower level hallway, above ceiling	asbestos cement on pipe elbow
Kitchen	asbestos cement on pipe elbow
Hall to Cafeteria	asbestos cement on pipe elbow
Cafeteria	asbestos cement on pipe elbow
Main Hallway in front, above ceiling	asbestos cement on pipe elbow
Gym Storage, below ceiling	asbestos cement on pipe elbow
Lumber Storage, below ceiling	asbestos cement on pipe elbow
Room 104, below ceiling	asbestos cement on pipe elbow
Room 115, below ceiling	asbestos cement on pipe elbow
Room 136, above ceiling	asbestos cement on pipe elbow
Room 214, below ceiling	asbestos cement on pipe elbow
Cafeteria	seamless flooring
Room 122	seamless flooring
Room 123	seamless flooring
A.V Storage Room	seamless flooring
Cafeteria Kitchen Storage Room	transite ceiling panels

Appendix F: Photos of Priority 1s.

There are no Priority 1s.