ASBESTOS SURVEY,
Brookside Junior High
2239 Prospect Road
Hatchet Lake, N.S., B3T 1R8

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 Brookside Junior High 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.

All inspections were scheduled such that sampling could be conducted after normal school hours. This school was surveyed on January 11, 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.

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

INVENTORY RESULTS.

Boiler Room: The boiler is encased in steel with no access to the insulation underneath. The insulation on the exhaust is mag block that contains 15% amosite asbestos. The insulation is in good condition and a Priority 3. Pipes in the Boiler Room are insulated with fibreglass on the runs and asbestos containing cement (60% chrysotile) on the elbows. The cement is in good condition and a Priority 3.

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

Floors: None of the floor coverings in this school contain asbestos.

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

Ceilings: None of the ceiling materials in this school contain asbestos.

Pipe Systems: The pipes throughout the school are insulated with fibreglass or paper on the runs and asbestos cement on the elbows. Pipe 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 Priorities of the various ACMs at this school:

Priority 1:
- none

Priority 2:
- none

Priority 3:
- Boiler Room, mag block on exhaust
- Boiler Room, asbestos cement on pipe elbows
- cement on pipe elbows located above the ceiling

Appendix B:

Samples taken and locations			
#	**Sample description**	**Location**	**ACM**
	Boiler Room		
23.1	cement on pipe elbow	hot water supply line	yes
23.2	cement on pipe elbow	return line	yes
23.3	cement on exhaust	boiler exhaust	yes
	Exterior		
	No samples taken from exterior.		
	Floors		
23.5	12" tile, beige with beige and white streaks	Cafe	no
23.6	12" tile, green/brown with white streaks	Room 103	no
23.7	12" tile, orange/brown with white streaks	Room 104	no
23.14	12" tile, blue/gray with blue and gray fleck	Gymnasium Stage	no
	Ceilings		
23.4	2'x2' suspended tile	Main Hallway	no
23.15	2'x2' suspended tile	Cafe	no
23.8	2'x2' suspended tile	Administration Office	no
23.9	2'x2' suspended tile	lower level, Boys Washroom	no
23.10	2'x2' suspended tile	2nd level Foyer	no
23.11	2'x4' suspended tile	Room 212	no
	Pipes		
23.12	insulation on pipe elbow	2nd floor Mechanical Room	yes
23.13	insulation on pipe run	Hallway near Library	no

Appendix D:

Quantity and locations of ACMs.

Boiler Room

Description	Locations	Quantity
asbestos cement on pipe elbows	throughout Boiler Room	23
mag bloc	Boiler exhaust	10 ft.x 2ft. Dia.

Exterior

No ACMs on building exterior.

Floors

No ACMs pipe materials,

Walls

No ACMs wall materials.

Ceilings

No ACMs ceiling materials.

Pipes

Description	Locations	Quantity
asbestos cement on pipe elbows	Cafeteria	4
asbestos cement on pipe elbows	Kitchen	7
asbestos cement on pipe elbows	Room 104	8
asbestos cement on pipe elbows	Room 105	2
asbestos cement on pipe elbows	1st. level Mechanical Room	10
asbestos cement on pipe elbows	Administration Office	2
asbestos cement on pipe elbows	Room 107	1
asbestos cement on pipe elbows	1 st. floor Hallway	3

Pipes

Description	Locations	Quantity
asbestos cement on pipe elbows	Male Staff Washroom	2
asbestos cement on pipe elbows	Girls Shower	2
asbestos cement on pipe elbows	Main Entrance Foyer	2
asbestos cement on pipe elbows	Staff Washrooms	1
asbestos cement on pipe elbows	Room 215	4
asbestos cement on pipe elbows	2 nd. level Mechanical Room	15
asbestos cement on pipe elbows	Boys Washroom	10
asbestos cement on pipe elbows	Gymnasium	3
asbestos cement on pipe elbows	Gymnasium Stage	6

Appendix E:

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

Room	ACMs
Boiler Room	asbestos cement on pipe elbows, mag block on exhaust
Cafeteria	asbestos cement on pipe elbows above ceiling
Kitchen	asbestos cement on pipe elbows above ceiling
Room 104	asbestos cement on pipe elbows above ceiling
Room 105	asbestos cement on pipe elbows above ceiling
1st. level Mechanical Room	asbestos cement on pipe elbows above ceiling
Administration Office	asbestos cement on pipe elbows above ceiling
Room 107	asbestos cement on pipe elbows above ceiling
1 st. floor Hallway	asbestos cement on pipe elbows above ceiling
Male Staff Washroom	asbestos cement on pipe elbows above ceiling
Girls Shower	asbestos cement on pipe elbows above ceiling
Main Entrance Foyer	asbestos cement on pipe elbows above ceiling
Staff Washrooms	asbestos cement on pipe elbows above ceiling
Room 215	asbestos cement on pipe elbows above ceiling
2 nd. level Mechanical Room	asbestos cement on pipe elbows above ceiling
Boys Washroom	asbestos cement on pipe elbows above ceiling
Gymnasium	asbestos cement on pipe elbows above ceiling
Gymnasium Stage	asbestos cement on pipe elbows above ceiling

Appendix F:

There are no Priority 1 ACMs.