

Management of Asbestos Containing Materials at Ellice

Gary Bartlett
General Manager

Ellice Recycle Ltd

Victoria, BC

Agenda

- **Introduction**
- **What is Asbestos?**
- **Where will you find Asbestos?**
- **Why be concerned?**
- **What Ellice does**
- **Industry opportunities for improvement**
- **Summary**

Introduction to Ellice

- **Ellice Operating Units**

- Diversion Facility (Residential & Commercial)
- Commercial Yard (Commercial)
- Bin Service and Trucking (Residential & Commercial)
- Metals Recycling (Non-Ferrous Metal Recycling)

- **Member of the Ralmax Group of Companies**

- Ralmax Development (Deconstruction, Excavation, Environmental Services)
- Point Hope Maritime (Ship Repair & Retrofits)
- United Engineering (Metal Fabrication)
- Ralmax Properties (Industrial Real Estate Management)

Introduction to Ellice

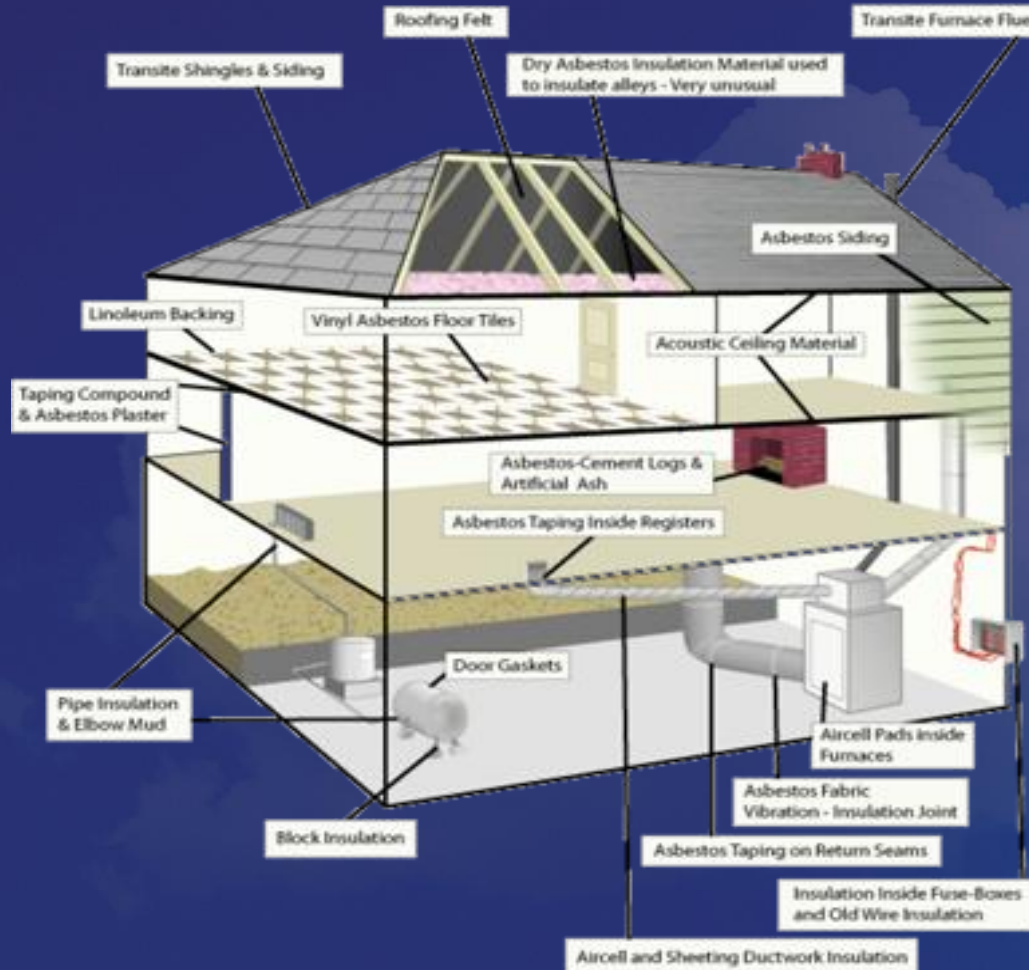
- Currently handle over 26,000 tonnes of waste material per year
- 81% waste diversion rate
- Material received from residential, commercial and institutional customers (both dropped-off and picked-up)
- ISO14001 registered in 2010, OHSAS 18000 registration audit planned for Fall 2011

What is Asbestos?

- Naturally occurring mineral which occurs in long, thin fibrous crystals
- Great heat resistance, insulating properties, tensile strength, flexibility and chemical resistance
- Use can be traced back over 4500 years with increased popularity during the industrial revolution
- Use in North America stopped in the early 1980's; still mined in Canada for export



Where Will You Find Asbestos?



From <http://www.asbestossurveyingnationwide.co.uk/asbestos-surveys.html>

Common Asbestos Containing Materials in our Waste Stream ?

- Vermiculite (older insulation, sold as Zonolitetm); highly friable
- Pipe wrap and boiler/furnace insulation
- Cement pipe, wallboard and siding
- Flooring (including adhesives), artificial fire logs, gaskets

Why be concerned about Asbestos?

- Exposure to fibres is linked to:
 - Asbestosis
 - Mesothelioma
 - Lung Cancer
- Leading cause of occupational death
 - More than 50 will die in BC this year due to asbestos exposure
- The only cure is prevention

What Does Ellice do?

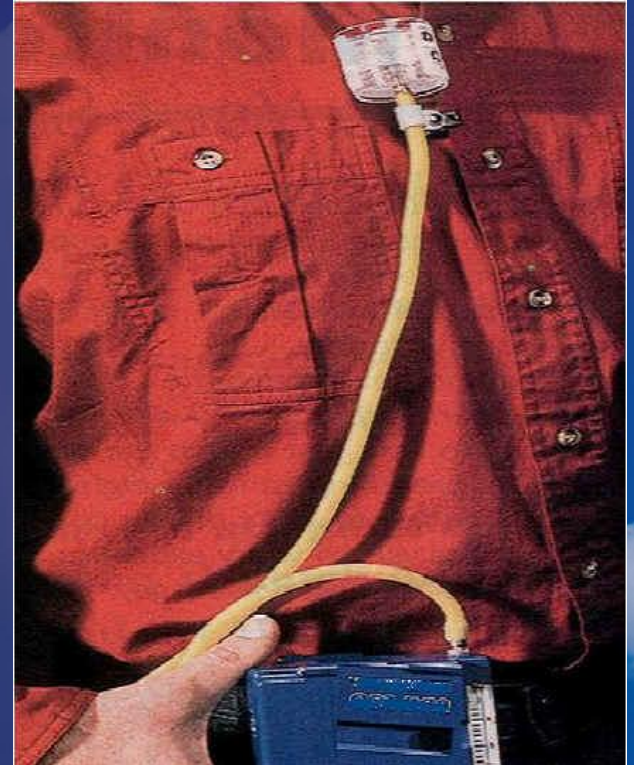
Focus is on eliminating uncontrolled employee exposure

- Train the Customer
 - Let them know we do not accept ACM
 - How to determine if they have ACM
 - What to do if they do have ACM
- Train Employees
 - Asbestos Identification
 - Rules of Action if ACM is encountered



What Does Ellice do?

- Monitor our facilities in normal operation
 - Regular air monitoring
 - Random grab samples
 - Do risk and hazard assessments for ongoing activities



What Does Ellice do?

- Contain Potential ACM Exposures
 - Secure the exposure area (pylons/tape)
 - Minimize employee/customer exposure
 - Keep upwind, make area wet
 - Contact originator/source of material
 - Get a material sample (trained individual only)



What Does Ellice do?

- Use Qualified help to clean up material
 - File “Notice of Project”
 - Follow safe handling/transport protocol in (TDG, packaging, manifests per BC Hazardous Waste regulations)



Opportunities for Improvement?

- Better education and awareness for homeowners, contractors and haulers
- Reliable demolition/deconstruction permit processes
 - Consistent inspection report requirements
 - Require a follow-up assessment to be complete
- Training and certification of asbestos clean-up firms
 - How do homeowners choose a reputable firm?
- Material inspection “at the gate” for ACM

Summary

The goal is to keep exposures as low as reasonably possible to keep employees, customers and the general public safe