

**ZEROHARM  
TODAY**



# Boral Recycling – Doing As\_best\_os we can to minimise contamination



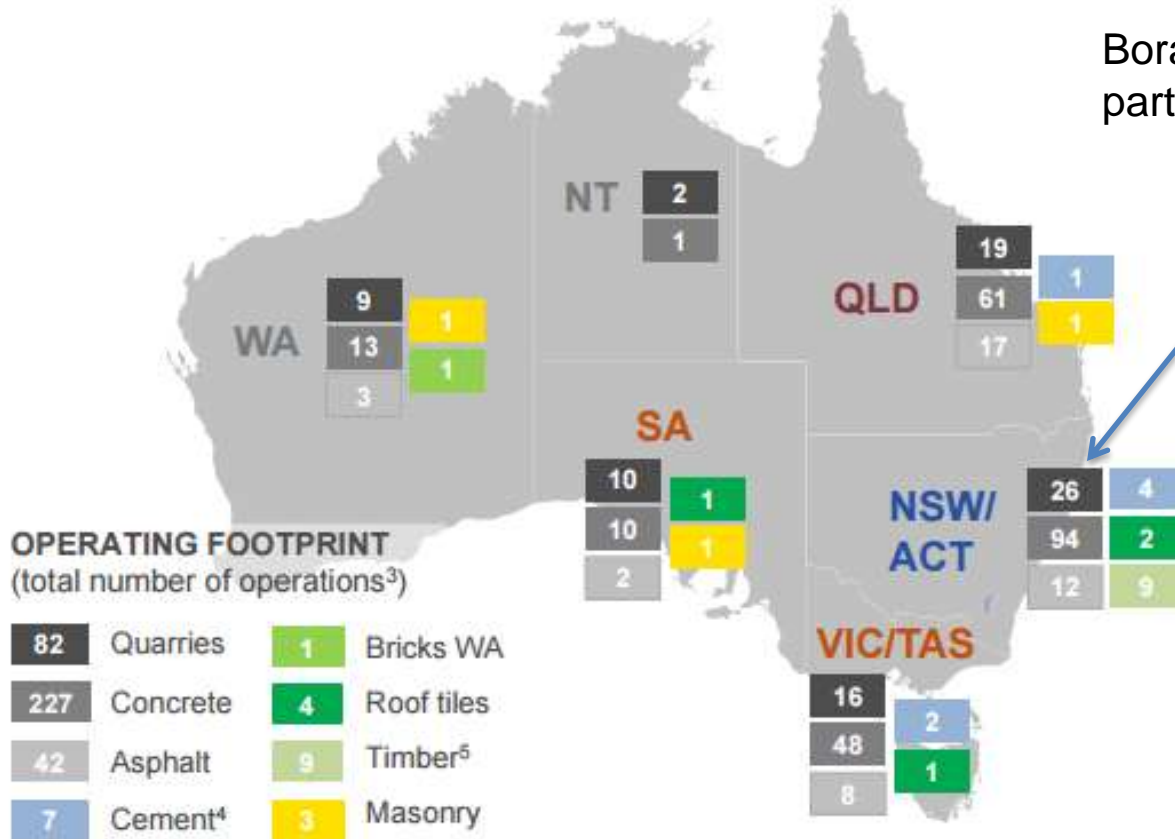
# Key Discussion Points

- About Boral Recycling NSW/ACT
- C&D Resource Recovery Products
- Asbestos Containing Material Risks
- Boral Recycling Safety
- Boral Recycling Receival Protocol
  - Asbestos Awareness Training
  - Demolition and Material Source Sites
  - C&D Waste Receival
    - Weighbridge
    - Material Tipping
  - C&D Processing
    - Loading and processing
    - Picking station
  - Quality Assurance
  - Methods for handling asbestos loads
- Summary



# Boral Australia Division

Boral Recycling NSW/ACT forms part of the Quarry business



- 3. As at November 2016
- 4. Includes cement manufacturing plant, bagging plant and lime plant in NSW, a clinker grinding plant in Vic and a clinker grinding JV in Qld
- 5. Includes 8 Boral Hardwood mills and 1 JV Softwood operation



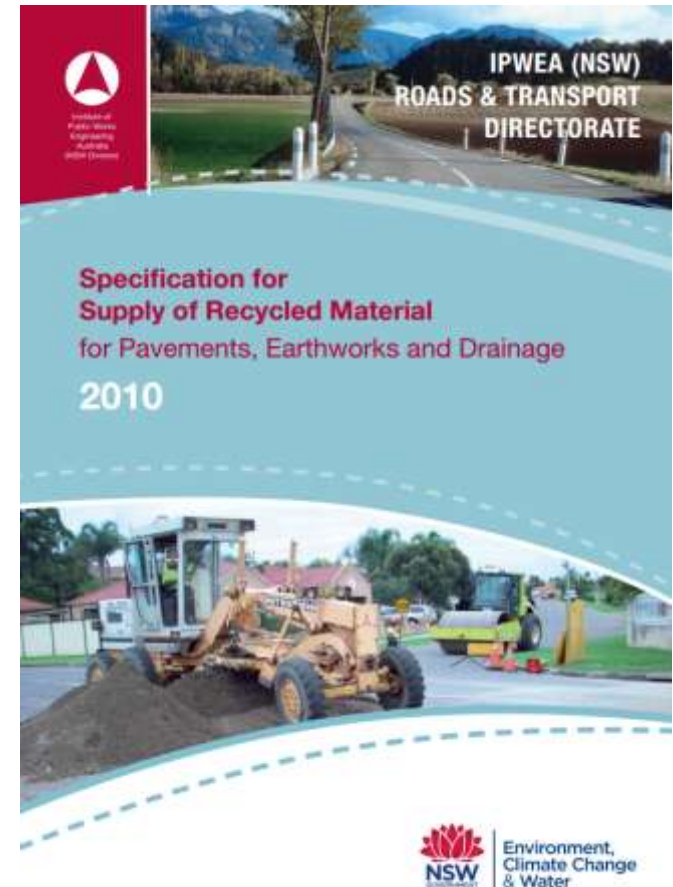
# Boral Recycling NSW/ACT

- Commenced C&D Recycling in 1993
- Currently approved to receive and process > 1 million tonnes C&D materials per annum
- Currently operate out of five sites
  - Widemere (Wetherill Park)
  - St Peters
  - Kooragang
  - Eraring (bottom ash etc.)
  - Mugga Quarry (ACT)



# Aim to produce quality resource recovered products

- The C&D Resource Recovery Industry has worked closely with the NSW RMS and Councils in gaining specifications for the supply of recycled products produced from C&D wastes.
- Managing the source and type of your inputs is essential in being able to produce a quality recycled product
- Contaminants/foreign objects can impact quality and value of products produced.



# Aim to produce quality resource recovered products

- Asbestos is of considerable concern and poor management by any operator or poorly managed community concerns can quickly tarnish the resource recovery industry.
- If we as an industry can not sell our products (quality or community concerns), we can not continue to accept products for resource recovery.
- Minimising foreign contaminants, including asbestos, requires more than inspecting loads at the weighbridge



## Westconnex asbestos blunder

Posted September 7, 2016 by Joanna Grace & filed under City Hub, City News.

## Illegal waste site fined \$37,500 in Sydney

© AUGUST 26, 2016 11:31AM

Anna Hitchings · Australian Associated Press



An illegal waste facility in Sydney's southwest and its director have been fined \$37,500 by the Environment Protection Authority after the discovery of more than 65,000 tonnes of waste, including asbestos-contaminated material.

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# Boral Recycling Safety

Boral Recycling aims to achieve excellence in all areas in our business with “zero” harm to our people, contractors and the community.

At Boral Recycling,

***Health and safety is non-negotiable  
The health and safety of one’s self and others  
comes before production.***

Boral Recycling is a processor and employer with a responsibility to ensure we meet industry best practice in relation to the processing of construction and demolition materials.



# Boral Recycling C&D Resource Recovery Protocol

1. Asbestos Awareness Training
2. Demolition and Material Source Sites
3. C&D Waste Receival
  - A. Weighbridge
  - B. Material Tipping
4. C&D Processing
  - A. Loading and processing
  - B. Picking station
5. Quality Assurance
6. Methods for handling asbestos loads







# Asbestos and Awareness Training

- All Boral Recycling personnel and embedded contractors receive both asbestos awareness training and bonded-asbestos handling training when they commence and a refresher every 12 months
- Selected customers (based on volumes and rejected loads) invited to attend annual formal awareness program
- Occupational hygiene contractors assist – Hibbs and Associates
- Examples of restricted and prohibited wastes displayed at weighbridge

# Asbestos and Awareness Training

## Asbestos Containing Materials (ACM) examples



Photo 1 – Asbestos Cement conduit



Photo 2 – Moulded Asbestos Cement product – Cable Tray



Photo 3 – Flat Asbestos Cement sheet fragments



Photo 4 – Membrane & Flashing containing Asbestos



Photo 5 – Old Train Block Fragments containing Asbestos



Photo 6 – Fragments of Asbestos Cement sheeting on ground surface

# Demolition and Material Source Sites

- **Minimising risks of contamination starts at its source** either demolition sites or waste separation facilities
- A **significant portion C&D** waste received is through **larger projects** or specific facilities
- Receivables Account Managers **communicate** our inspection and **receiving protocol to customers** to explain our rigour and rejected load process
- Receivables Account Managers **visually inspect demolition sites** and waste separation facilities
- **Clearance certificates** obtained for sites where asbestos has been identified and clearance certificates are required or deemed necessary by Boral



# C & D Receivals at site – all loads inspected at least twice

- Weighbridge
  - Customer delivering identified, details noted
  - All loads inspected, classified and weighed prior to tipping
  - If asbestos containing material is identified or suspected , the load is immediately rejected
  - Rejected loads directed off site, details noted in rejected loads register
  - Three part docket for Non-rejected loads produced
    - Signed by receival clerk as inspected and given to driver to present to 'spotter' before tipping





# C & D Receivals at site – all loads inspected at least twice

- Tipping
  - Driver hands docket to Spotter
  - Load unloaded in designated raw feed stockpile area and visually inspected
  - Spotter signs docket to signify further inspection carried out and material accepted and suitable for raw feed
  - If suspected asbestos identified, load immediately isolated and handled as per 'method for handling suspected contaminated material'

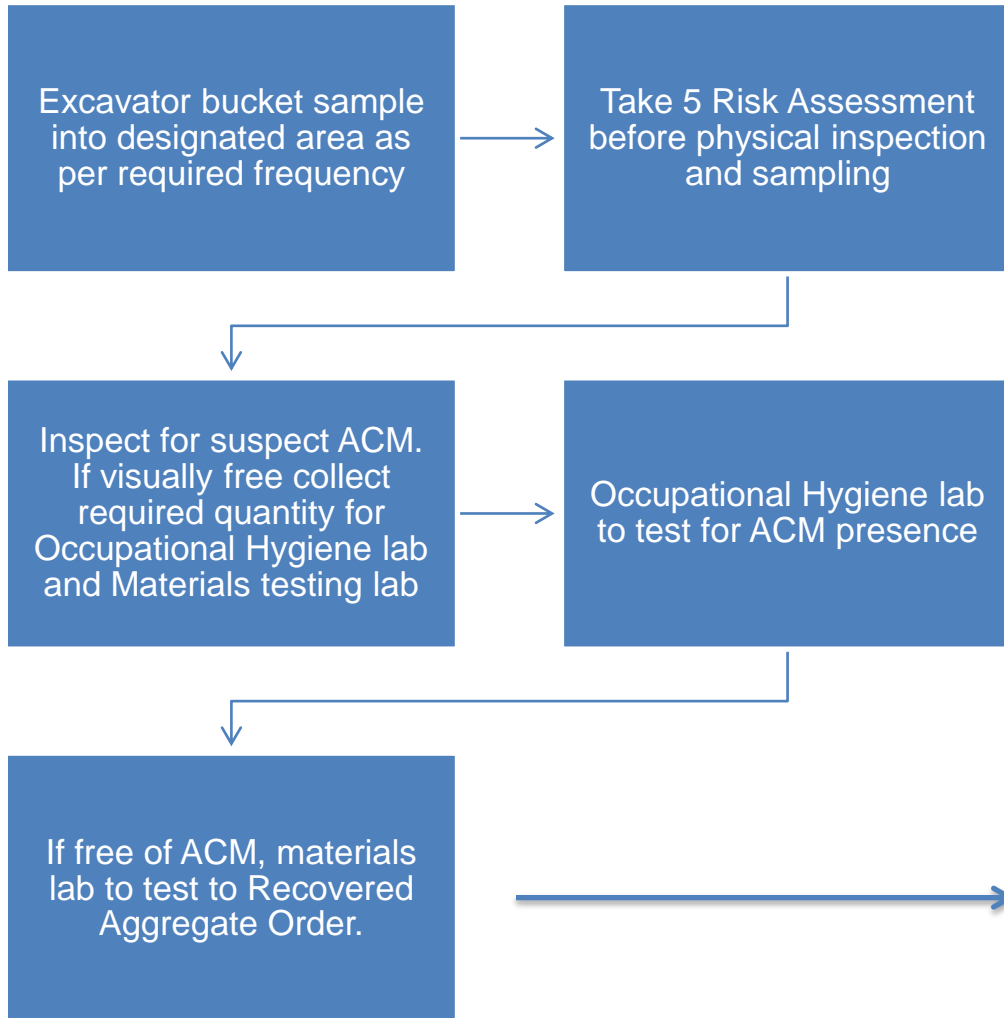


# C & D Processing

Throughout the processing of materials, all operators continually keep an eye out for suspect materials



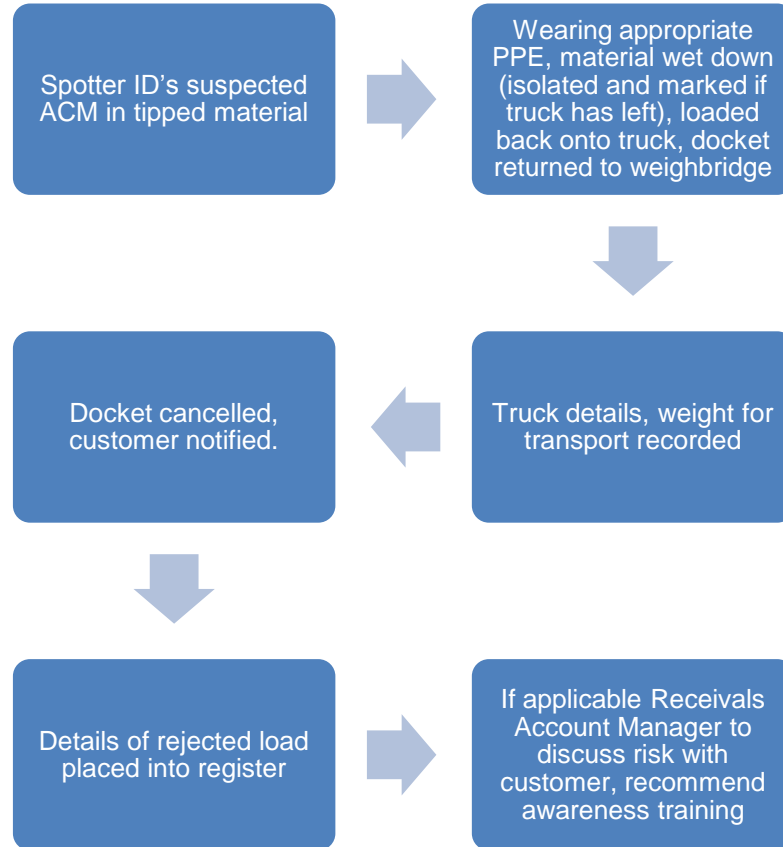
# Quality Assurance – Testing for Potential Hazardous Material



- If at any stage stockpiles are identified as containing suspected ACM, stockpiles are quarantined and the Occupational Hygiene is engaged to appropriately manage



# Handling and learning from rejected loads



- The decision to reject a load is the responsibility of Boral Recycling only and shall be final



# Summary

Minimising the risk of asbestos contamination within bulk resource recovery processes is more than inspecting incoming loads at the weigh bridge. It requires:

- Training of site operators, account managers and key customers
- Visits to source sites
- Feedback to key customers
- Multiple onsite inspections through the receipt, processing and product quality assurance
- Ability to safely reject loads, contain contaminations and learn from every find

Build something great™  
Presentation Title

Name and date

**ZERO**HARM  
**TODAY**

