

# *City Circle Recycling pty. ltd*

*Construction & Demolition Waste  
Recycling  
Jones Rd Brooklyn*

**BCRG 11/11/2015**



## ***Introduction***

- *Who am I?*
- *Who are City Circle?*
- *What will I be talking about tonight?*





## *Overview*

- *City Circle's Recycling site in Jones Rd Brooklyn processes Construction & Demolition (C&D) waste.*
- *C&D waste includes steel reinforced and unreinforced concrete, rock, brick, and asphalt*
- *Hazardous materials **are not** accepted. Any incoming load containing hazardous material is immediately rejected and removed off-site. Clearance certificates are supplied with all incoming loads from construction & Demolition sites.*
- *End products are utilized in a range of civil engineering applications such as road construction, footpaths, hardstands, car-parks, etc., as a replacement for natural quarry products.*



## ***C&D Waste Recycling:***

- *Reception, inspection, sorting, preparation and stockpiling waste feedstock*
- *Crushing and screening the feedstock to produce recycled concrete products*
- *Classification and distribution of finished products to civil construction sites in Melbourne Metro area*
- *Implementation of Site Specific OHS and Environmental Management Policies*



## ***Site Operations***

### ***Mobile Plant :***

*Excavators, wheel loaders and ancillary equipment.*

### ***Concrete Crushing Plant:***

*Primary jaw crusher, secondary cone crusher, electromagnets and screening equipment.*

### ***Stabilization Plant:***

*300 T/Hr pugmill.*





## ***Environmental Management***

- *The City Circle site operates within the scope and conditions of a formal **Site Environmental Management Plan (SEMP)***
- *The **SEMP** is designed to protect health and wellbeing of workforce, public and amenity of surrounding neighbourhood.*
- *The **SEMP** promotes efficient operation of all site based activities and ensures effective environmental management is implemented, maintained and enforced to ensure:*
  - *Effective dust and noise suppression procedures are in place and implemented at each stage of the recycling process.*
  - *Proper environmental maintenance of internal and external roads, stockpiles and hardstands.*
  - *Mud and surface debris is not tracked onto public access roads in the vicinity of the site.*



**CITY CIRCLE RECYCLING PTY LTD**

**BROOKLYN - SITE ENVIRONMENTAL MANAGEMENT PLAN**

**Introduction**

The City Circle Recycling facility in Jones Rd Brooklyn is designed to process Construction and Demolition waste materials and maximise recovery of natural resources for reuse in the civil construction industry.

The Department of Sustainability Victoria advises the total amount of C&D waste generated in Victoria is more than 3.2 million tonnes annually. It estimates 1.7 million tonnes of this material can be recycled to ease the burden on rapidly diminishing landfill space.

City Circle Recycling recycles over 400,000 tonnes of C&D waste per year at their Brooklyn facility.

Operation of the Brooklyn recycling facility involves the following activities:

- Implementation of site specific OHS and Environmental Control Policies
- Reception of incoming C&D waste
- Inspection, sorting, preparation & stockpiling of incoming C&D waste
- Crushing and processing C&D waste as recycled product
- Classification and stockpiling of C&D waste products
- Loading, weighing and distribution of recycled concrete products

Hazardous materials such as asbestos **are not** accepted at C&D waste recycling facilities and any incoming load containing hazardous material is immediately rejected and removed off site.

An important part of the recycling operation relates to dust and noise suppression related to site works and maintenance of internal and external site access roads and hardstands.

City Circle's site in Brooklyn operates within the scope and conditions contained in the Company's Environmental Control Plan, Operational Health and Safety Policies, the Victorian EPA, Victorian OHS Legislation, Codes of Practice and Australian Standards. The site is designed to protect the health and wellbeing of the workforce and the amenity of the surrounding neighbourhood.

The **Site Environmental Management Plan (SEMP)** was developed to promote efficient operation of all C&D waste recycling activities at the Jones Rd site in Brooklyn and is designed to ensure effective environmental management is implemented and enforced at the site.

**Operational Overview**

The recycled materials are utilized in a wide range of applications in freeway, road and car park construction, engineered backfills and other infrastructure applications as a replacement for natural quarry products.

The Jones Rd site accepts a variety of construction and demolition waste materials which are sorted upon receipt and stockpiled ready for mechanical crushing and screening.



Form: EMP 01.

**SITE ENVIRONMENTAL MANAGEMENT PLAN  
DUST/NOISE COMPLAINT REPORT**

Site: .....

**Complaint Details:**


Reported By: .....

(Block Letters)

Signature: .....

Reported To: .....

Date: .....

**Action Taken:**


Signature: .....

Date: .....

**Note:** The person receiving this report must promptly inform the Site Manager who will ensure appropriate procedures outlined in the site EMP are actioned without delay.

The Site Manager **MUST** copy this form to the following City Circle personnel immediately the EMP has been actioned:

- ➔ Site Foreman
- ➔ Managing Director



## ***Dust & Noise Suppression Internal Roads, Hardstands & Stockpiles***



- *Incoming loads are saturated by overhead dousing*
- *Overnight saturation of raw feed stockpiles*
- *Exposed surfaces treated with binding agents*

## ***Dust & Noise Suppression Crushing Plant***



- *Conveyor transfer areas fitted with dust suppression sprays*
- *Product specification normally requires 12 % m/c. i.e. approx. 100 Litres water /Tonne of product – enhances dust suppression.*

## ***Dust & Noise Suppression End-Product Handling***



***10 - 12% Moisture  
Content***



## ***Upgrades to site:***

- *In an attempt to minimise City Circles impact on the Brooklyn Community the following Site works have been undertaken to reduce the sites footprint.*
- *Sealing of Entrance Road*
- *Upgrade of Wheel Washing system*
- *Additional Wheel Wash added*
- *Reconstruction of bund Wall*
- *Environmental Manager*



# Site Exit





# Site Exit



## *Wheel Wash Works*



- *Tyre deformation grid and high pressure wheel wash at Exit.*

## ***Dust & Noise Mitigation Site Bunding***



- *Kororoit Creek boundary (bund 2m above max stockpile height).*
- *Partly mulched ready for planting with native foliage.*
- *Maximum stockpile height is 8 metres.*





## **Conclusion**

- *Moving Forward,*
  - *Tree Planting*
- *I hope that this presentation has shown you that we are aware of our role in this community and that we are aware of the consequences of poor practice.*
- *We will continue to work with council to improve the site and ensure that our presence in the community remains viable.*
- *Thankyou*