



INFORMATION SHEET:

Use of Recycled Construction and Demolition Material in Civil Construction Projects

Definitions:

<i>Construction and Demolition Waste</i>	Materials in the waste stream which arise from construction, refurbishment or demolition activities.
<i>Recycled drainage rock</i>	A uniformly blended mixture of coarse grained aggregate typically between 20 and 27 mm in particle size consisting of a mixture of concrete, rock, brick and other similar rubble material produced from the crushing and screening of construction and demolition waste.
<i>Recycled road base</i>	A uniformly blended mixture of coarse and fine aggregate typically less than 19 mm in particle size consisting largely of concrete produced from the crushing and screening of construction and demolition waste.

Background:

The City of Canning is committed to sustainable waste management. The City has used recycled construction and demolition products almost exclusively for road base since 2008. Utilisation of recycled construction and demolition products in civil construction projects will continue as a first preference as long as material is available.

Information for Suppliers of Recycled Construction and Demolition Material:

1. The supplying Waste Processing Facility must be licenced to accept and process C&D waste to produce recycled materials under Part V of the Environmental Protection Act 1986.
2. The supplying Waste Processing Facility must implement an asbestos management system.
3. Suitable operational control procedures are implemented to ensure the quality of the recycled material meets required standards.
4. Recycled construction and demolition material sourced for use in civil construction projects must have undergone relevant sampling and testing as identified by the City.
5. Any recycled construction and demolition products proposed for use are required to be free of asbestos or asbestos containing material

Information for Developers:

1. Landowners are encouraged to consider the use of recycled construction and demolition products for road construction in new developments. For more information on the use of recycled construction and demolition products for road construction, please contact the City of Canning on 1300 422 664.
2. Where the City of Canning is engaged for road construction in new developments the City of Canning shall utilise recycled construction and demolition products where practicable.

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Case Study:

Upgrade of Welshpool Road

Construction and demolition material was used as road base and sub-base for an 860m section of Welshpool Road, from a point west of Sevenoaks St to Leach Hwy in Welshpool. The road was a 4 lane undivided road, being widened by 4.5m on each side of the existing road pavement.

Welshpool Road carries a significant number of heavy vehicles including road trains serving two stock food manufacturers, and extra wide low loaders serving several heavy engineering construction companies.

After construction, testing indicated that the road pavement produced using recycled material was at least as strong, and possible stronger, than conventional roadbase. Further testing over time has shown that the recycled product gains considerable strength with curing and is now very much stronger than conventional base materials.

Additional benefits of the use of recycled construction and demolition materials included:

- Significant cost savings compared with traditional quarried materials.
- Savings in the disposal costs for demolished road materials, including concrete paths and kerbs. These materials were carted to the recycling yard for processing, rather than disposed of in landfill at a cost.
- Savings in transportation costs and associated greenhouse gas emissions.
- Approximately 2,000 m³ of materials were diverted from landfill.
- Approximately 2,000 m³ of new materials were saved from extraction from the environment.



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