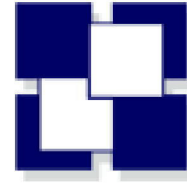


WASTE MANAGEMENT **PLAN**



benchmark
BUILDING CERTIFIERS

Outline of Proposal

SITE ADDRESS: Lot 60 DP 259229 (No. 10) Iralba Avenue,
Emu Plains

APPLICANT: Mr & Mrs Sinclair /
Sharon Jones Accomplished Design

PHONE: C/- 0434 544 173

FAX/EMAIL: c/- sjadesgn63@gmail.com

BUILDINGS ON SITE: Existing single storey dwelling and
detached ancillary structures

PROPOSAL: Demolition of the existing dwelling and
detached ancillary structures and
construction of an attached dual
occupancy development

DATE: May 2017

*This Waste Management Plan
has been prepared by Anthony Krilich (MAIBS, B.App.Sc. (Env. Hlth)).*

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Anthony Krilich
Report No. J17-024

DEMOLITION – STAGE 1

Demolition of all existing site structures.

Materials On-Site	DESTINATION			
	RECYCLING AND REUSE			DISPOSAL
Type of Material	Estimated Volume (m ³) or weight (t)	ON SITE Specify proposed reuse or on-site recycling methods	OFF SITE Specify contractor and recycling outlet	Specify contractor and landfill site.
Excavation Material	Nil. No surplus excavation material with demolition. All material to be re-graded into site	N/A	N/A	N/A
Green Waste	Removal of four minor trees and shrubs. Volume approximately 2m ³ .	Tree removal be conducted by tree removal contractor. Plants and shrubs to be mulched.	If possible, existing trees/shrubs to be mulched by tree removal contractor. Use and sale of this mulch material is to be off-site.	No landfill proposed.

Roof Tiles - Roof tiles of existing dwelling.	Volume difficult to determine but would be approximately 8 - 10 tonnes.	Nil on-site use	If possible or required, roofing tiles to be taken to: "Boral Crushing" Industrial Drive, Mayfield West Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Any other recycling outlet may also be sourced by demolition contractor.	Any roof tiles not recycled will be disposed of at landfill. Probable destination for disposal will be: "SITA Environmental Solutions" – Eastern Creek.
Bricks - Brick/masonry house	Volume difficult to determine but would be approximately 20 - 25 tonnes.	Nil on-site use	If possible, bricks to be taken to: "Concrete Recyclers" 14 Thackery St, Camellia Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Any other recycling outlet may also be sourced by demolition contractor.	Any bricks not recycled will be disposed of at landfill. Probable destination for disposal will be: "SITA Environmental Solutions" – Eastern Creek.

Concrete - Concrete slabs, footings. - Other ancillary	Volume difficult to determine but would be approximately 10-12 tonnes.	Nil on site use.	Waste concrete to be taken by demolition contractor to appropriate recycling or disposal outlet. Probable destination for recycling outlet will be: "Boral Crushing" Industrial Drive, Mayfield West Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Any other recycling outlet may also be sourced by demolition contractor.	Any concrete not recycled will be disposed of at landfill. Probable destination for disposal will be: "SITA Environmental Solutions" – Eastern Creek.
Timber - Framework	Volume difficult to determine but would be approximately 10-12 tonnes.	Possible re-use of better quality timbers (eg. hardwoods) in the construction of the new building. Otherwise, timber to be recycled.	All good quality timber will be recycled. Probable destination for recycling outlet will be: "South Windsor Resource Recovery Centre" 723-727 George St, Windsor Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Possible sale of good second hand building materials to specific second hand building material outlets (eg. windows/ doors/ etc..)	Nil off-site landfill disposal for timber waste.

Plasterboard	Volume difficult to determine but would be approximately 7-8 tonnes.	Nil on site use.	<p>Where possible, plasterboard to be sent for recycling.</p> <p>For example, plasterboard may be recycled by: "Boral Plasterboard" 3 Thackery Street, Camellia. Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek</p> <p>Any other recycling outlet may also be sourced by demolition contractor.</p>	Any plasterboard not recycled will be disposed of at landfill. Probable destination for disposal will be: "SITA Environmental Solutions" – Eastern Creek.
Metals – <ul style="list-style-type: none"> - Downpipes and guttering. - Structural steel work and reinforcing - Minor awnings. - carport and garage roof 	Estimated volume difficult to determine but would be less than 1-2 tonnes.	Nil on site re-use.	<p>All metals will be recycled. Probable destination for recycling outlet will be: "SimsMetal Ltd" 76 Christie Street, St Marys</p>	Nil landfill disposal is proposed for any metals.
Other – <ul style="list-style-type: none"> - Plastics/PVC/UPVC - Cladding - Glass - Paper & cardboard - Tiling/fittings - Other ceramics - Carpets/cloth - House equipment (AC, hot water, ovens/stoves). - Bathroom equipment (baths/vanities) - Wiring , putrescible waste, etc.. 	Approximately 4-5 tonnes.	Nil on site re-use.	<p>All paper/cardboard & glass to be recycled at appropriate outlet.</p> <p>Other non-recyclable waste to be disposed of in landfill.</p> <p>Possible re-sale of certain items at second hand retailers such as bathtubs, doors, windows, construction material.</p>	Probable destination for disposal will be: "SITA Environmental Solutions" – Eastern Creek.

<p>Other – Asbestos</p> <ul style="list-style-type: none"> - Eave linings. 	<p>Volume difficult to accurately determine and may exceed 10m² in area.</p> <p><i>Note: Work involving bonded asbestos removal work (of an area of more than 10 square metres) or friable asbestos removal work must be undertaken by a person who carries on a business of such removal work in accordance with a licence under clause 318 of the Occupational Health and Safety Regulation 2001.</i></p>	<p>Nil.</p>	<p>Nil.</p>	<p>All fibrous cement products will be disposed of in accordance with the requirements of Penrith Cty Council's requirements and WorkCover Authority requirements. Disposal to be undertaken by an appropriately licensed demolition contractor.</p> <p><i>Note: Information on the removal and disposal of asbestos to landfill sites licensed to accept this waste is available from the Department of Environment, Climate Change and Water.</i></p>
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CONSTRUCTION – STAGE 2 (A)

Construction of a two storey attached dual occupancy.

Materials On-Site	DESTINATION			
	RECYCLING AND REUSE			DISPOSAL
Type of Material	Estimated Volume (m ³) or weight (t)	ON SITE Specify proposed reuse or on-site recycling methods	OFF SITE Specify contractor and recycling outlet	Specify contractor and landfill site.
Excavation Material	No surplus excavation material. Any excess material to be graded on site as part of the cut and fill platform for the development.	All excavated material will be re-graded into site or used under concrete slab area.	No off site recycling outlet is required.	No landfill site is required for excavation material.
Roof Tiles	Not applicable (metal roof).	N/A	N/A	N/A
Green Waste	Nil (refer to demolition phase)	N/A	N/A	N/A

Bricks/Masonry	Approximately 1-2 tonne.	Some better bricks to be kept for site owners' future use. Others used in retaining work/ driveway base/ landscaping edging and backfilling if required.	If possible, remaining bricks and off cuts to be taken to: "Concrete Recyclers" 14 Thackery St, Camellia Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Any other recycling outlet may also be sourced by building contractor.	Any bricks not recycled will be disposed of at landfill. Probable destination for disposal will be: "SITA Environmental Solutions" – Wallgrove Road, Eastern Creek.
Concrete	Maximum 1m ³	Possible use of any excess concrete spill to in base for driveways and paths (non-structural components only).	No off-site recycling outlet proposed. Remaining concrete to be taken back by delivering concrete truck to concrete batching plant for re-use.	Nil off-site landfill disposal for concrete waste is proposed.
Timber - Framework - Fit out timber - Other ancillary	Minimal waste generation due to truss and frame fabrication processes.	All better timber pieces will be kept for future building projects.	Any required off site disposal for un-usable timbers will be sent to the recycling contractor: "South Windsor Resource Recovery Centre" 723-727 George St, Windsor Or "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Any other recycling outlet may also be sourced by building contractor.	Nil off-site landfill disposal for timber waste is proposed.

Plasterboard	Less than 0.5 tonnes.	Nil, other than installer's procedures for reducing waste generation through good work practice.	Gyprock supplier (CSR or Boral) to generally undertake recycling of all off-cuts and surplus material for recycling. For example, Boral plasterboard to be recycled by: "Boral Plasterboard" 3 Thackery Street, Camellia. CSR plasterboard to be recycled by: "Jamax" (9772 1197)	Nil off-site landfill disposal for plasterboard waste is proposed.
Metals – <ul style="list-style-type: none"> - Roofing - Piping - Flashing - Downpipes and guttering. - Structural steel work and reinforcing 	Estimated volume difficult to determine but would be minimal (due to cost of most materials and products). Less than 0.5 tonnes.	Most material is used as best as possible on site due to cost of materials (eg copper piping). Other material, such as reinforcing steel is not wasted but used in structural concrete works.	Specific contractor to recycle most metals (eg. Copper piping by plumbing contractor). All waste metals not recycled by specific contractor will be recycled at: "SimsMetal Ltd" 76 Christie Street, St Marys	Nil landfill disposal is proposed for any metals is proposed.
Other – General waste <ul style="list-style-type: none"> - Cladding - Plastics/PVC/UPVC - Polystyrene. - Glass - Paper & cardboard - Tiling/fittings - Other ceramics - Carpets/cloth - Wiring - Putrescible waste, etc.. 	Approximately 3-4 tonnes.	Nil on-site use.	All paper/cardboard & glass to be recycled at appropriate outlet. Probable destination will be "Dial-a-Dump Industries (Genesis)" Honeycomb Drive, Eastern Creek Other non-recyclable waste to be disposed of in landfill.	Generally, most other waste will be disposed of at: 'SITA Environmental Solutions' – Wallgrove Road, Eastern Creek.

Additional Information:

The above quoted waste companies may be changed where disposal to another approved company is proposed. In addition, the following services may be useful:

The Sydney Waste Exchange

- The Sydney Waste Exchange links people who wish to dispose of fill with people who wish to obtain it. The service regulates the exchange process and provides necessary documentation. Refer to www.sydneywaste.com.au or phone 9638 3330.

Construction Connect

- Construction Connect is an online trading site where buildings, landscapers and earthmovers, suppliers and the general public can list their excess or second-hand building materials or clean fill they no longer need. Buyers contact the sellers directly to organise a sale. The aim is to keep valuable resources from being disposed of to landfill and preserve natural resources. Refer to www.constructionconnect.com.au.

Additional Notes for Waste Management:

- Builder to advise all sub-contractors of waste practices required when working on site.
- Builder/contractors to keep an inventory of all receipts from re-use and recycling depots/companies and landfill sites.
- "Waste handler" to be chosen by builder to follow waste management plans.
- Builder to label all on-site waste sorting and storage areas.
- Builder to follow a "purchasing policy" that will:
 - Identify required qualities of materials accurately to minimise waste.
 - Source suppliers who recycle or reuse waste or surplus supplied materials.
 - Source suppliers who have reduced packaging or who recycle their own packaging.

DESIGN OF FACILITIES – STAGE 2 (B)

Type of waste to be generated:

- The type of waste to be generated includes general household waste generation. This incorporates a variety of paper products, plastics, food wastes and glass generated in a normal household.
- Waste generation will be as for a typical dwelling for each of the dwellings.

Expected volume per week:

- The expected total volume per week are difficult to estimate but would be up to 80 litres per occupant per week. Approximately 1/3 of this volume would be recycled (ie. About 25 litres/occupant/week).

On-site storage:

- It is proposed for a waste cupboard to be incorporated within the proposed kitchen of each dwelling.
- Site containers will consist of standard Penrith City Council garbage bins and recycling bins for both new dwellings.
- Waste storage and recycling bins will be located within the yard area of the site.
- Bins will be wheeled to street on collection night. Collection will be by Council's waste contractor.
- No additional requirements for on-site storage.

ON-GOING MANAGEMENT – STAGE 2 (C)

Standard on-going management for a development of this size would include:

- As per occupants/owners choice.

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