

## Applicant and Project Details

Complete this page and the relevant Sections that apply to your proposed development.

### Applicants' Details

Name: (must be the same as the DA form)	George Antoniou
Address: (must be the same as the DA form)	Locked Bag 5001 Alexandria NSW 2015
Phone Number:	0405 392 695
Email Address:	george@belvoirproperty.com.au

### Property Details

Lot No: Deposited Plan (DP) No: or Strata Plan (SP) No:	Lot B D.P. 369977
Unit No: House No: Street: Suburb: Postcode:	11 Lewis Street Balgowlah Heights

### Project Details

Description of proposed development:	Demolition of existing structures and construction of a 57 place Centre-based child care facility. Operating from 7am - 7pm Monday-Friday
Structures to be demolished:	Existing house, pool and ancillary structures

### Applicant Declaration

I declare that:

1. This plan has been completed in accordance with the Waste Management Guidelines
2. To the best of my knowledge, the details on this form are accurate and correct

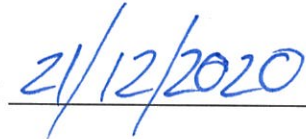
I understand that:

1. All records demonstrating lawful disposal of waste will be retained and kept readily accessible for inspection by regulatory authorities such as Council, NSW Environment Protection Authority or WorkCover NSW.
2. A bond in accordance with Council's fees and charges may apply to this development and must be paid to Council prior to any works commencing.
3. The bond will only be refunded when Council is satisfied that all waste outlined in this plan has been managed as per the plan, and evidence such as photos, receipts and statutory declarations must be supplied where appropriate.

Signature of Applicant:



Date:



## Section 1 – Demolition

This section must be completed in accordance with 'Chapter 1 – Demolition' of the Waste Management Guidelines

MATERIALS ON SITE	DESTINATION <i>Evidence such as weighbridge dockets and invoices for waste disposal or recycling must be retained on site for inspection</i>					
	REUSE AND RECYCLING (MOST FAVOURABLE)				DISPOSAL (LEAST FAVOURABLE)	
Types of Waste Material	Estimated Volume (m <sup>3</sup> ) or Weight (t)	ONSITE RE-USE ✓ Specify how material will be reused on site	OFFSITE RECYCLING ✓ Recycling Outlet (RO) ✓ Waste Transport Contractor (WTC)		OFFSITE DISPOSAL ✓ Specify landfill site (LS) ✓ Specify Waste Transport Contractor (WTC)	
			WTC	RO	WTC	LS
Excavated Material	1738 m <sup>3</sup>	Fill pool area	Builder	Sydney Sandstone Blocks		
Garden Organics	13+				Builder	TBC
Bricks	60 m <sup>3</sup>		Builder	TBC	OPTION NOT AVAILABLE: These materials must be re-used or separated on or off site and sent for recycling.	
Tiles	20 m <sup>3</sup>		Builder	Kimbriki		
Concrete	100 m <sup>3</sup>		Builder	Kimbriki		
Timber	30 m <sup>3</sup>	Formwork	Builder	Kimbriki		
Plasterboard	20 m <sup>3</sup>		Builder	Kimbriki		
Metals						
Asbestos	N/A					
Other waste (please specify)						
Estimated Total % Recovered	30%					

Refer to the estimation tables in 'Chapter 1 – Demolition' of the Guidelines for assistance in completing this table.

The applicant must submit a Site Plan showing the structures to be demolished and storage areas for waste and construction materials (if the development also includes construction).

### WMP Checklist

Have you included the following:	Applicant Tick
<p>A site plan showing:</p> <ul style="list-style-type: none"> <li>• The structures to be demolished.</li> <li>• Storage areas for waste to be reused, recycled, or disposed of.</li> <li>• Materials storage (if the development also includes construction)</li> </ul>	<input checked="" type="checkbox"/>
<p>The table on the previous page, completed in accordance with 'Chapter 1 – Demolition' in the guidelines.</p>	<input checked="" type="checkbox"/>



## Section 2 – Construction

This section must be completed in accordance with 'Chapter 2 – Construction' of the Waste Management Guidelines

MATERIALS ON SITE	DESTINATION <i>Evidence such as weighbridge dockets and invoices for waste disposal or recycling must be retained on site for inspection</i>					
	REUSE AND RECYCLING (MOST FAVOURABLE)				DISPOSAL (LEAST FAVOURABLE)	
Types of Waste Material	Estimated Volume (m <sup>3</sup> ) or Weight (t)	ONSITE RE-USE ✓ Specify how material will be reused on site	OFFSITE RECYCLING ✓ Specify recycling outlet (RO) ✓ Specify Waste Transport Contractor (WTC)		OFFSITE DISPOSAL ✓ Specify landfill site (LS) ✓ Specify Waste Transport Contractor (WTC)	
* Please specify			WTC	RO	WTC	LS
Excavated Material						
Garden Organics						
Bricks	1 m <sup>3</sup>	To be returned to supplier			OPTION NOT AVAILABLE: These materials must be re-used or separated on or off site and sent for recycling.	
Tiles						
Concrete	3 m <sup>3</sup>	To be returned to supplier				
Timber*						
Plasterboard						
Metals*						
Asbestos						
Other waste*	Plastics					
Estimated Total % Recovered						

Refer to the estimation tables in 'Chapter 2 – Construction' of the Guidelines for assistance in completing this table.

Bingo Skip Bins

The applicant must submit a Site Plan showing the structures to be demolished and storage areas for waste and construction materials (if the development also includes construction).

### WMP Checklist

Have you included the following:	Applicant Tick
<p>A site plan showing:</p> <ul style="list-style-type: none"> <li>• The structures to be demolished.</li> <li>• Potential storage areas for waste to be reused, recycled, or disposed of.</li> <li>• Materials storage</li> </ul>	<input checked="" type="checkbox"/>
<p>The table on the previous page, completed in accordance with 'Chapter 2 – Construction' in the guidelines.</p>	<input checked="" type="checkbox"/>

## Section 5 – On-going waste management for non-residential and mixed use developments

This section is to be completed in accordance with 'Chapter 5 – On-going waste management for non-residential developments' and 'Chapter 6 – On-going waste management for mixed use developments' of the Waste Management Guidelines.

Type of development: Childcare Centre

Number of commercial premises: 1

Number of Waste Storage Areas: 1

### WMP Checklist

Do your architectural/landscape plans include the following:	Applicant Tick	N/A
Waste Storage Area design requirements (Chapter 5.2.)	<input checked="" type="checkbox"/>	-
Waste Storage Area location requirements (Chapter 5.3.)	<input checked="" type="checkbox"/>	-

## Expected ongoing use waste generation

The waste generation rates outlined in the NORTHERN BEACHES COUNCIL Waste Management Guidelines (dated October 2016) outlines the following:

Type of premises	Garbage generation rate	Recycling generation rate
Childcare	250L/100m <sup>2</sup> floor area/day	120L/100m <sup>2</sup> floor area/day

The above information has been sourced from Randwick City Council's Waste Management Plan Guidelines, City of Melbourne Council's Commercial Waste Generation Rate and NSW DECC Better Practice Guide for Waste Management in Multi-unit Dwellings.

### Waste Generation Per Week – NBC October 2016 WMG

Floor Area	Waste Generation Rates	Waste Generation Per Day	Waste Generation Per Week*	Nominates Waste Bin	Total Number of Bins
341m <sup>2</sup>	250L/100m <sup>2</sup>	852L	4,260L	240L Bins	18 Bins

### Recycling Generation Per Week – NBC October 2016 WMG

Floor Area	Waste Generation Rates	Waste Generation Per Day	Waste Generation Per Week*	Nominates Waste Bin	Total Number of Bins
341m <sup>2</sup>	120L/100m <sup>2</sup>	409L	2,045L	240L Bins	9 Bins

*\*weekly generation is based on 5 days as the centre does not operate over the weekend.*

It is clear that the waste generation calculations of a total of 27 x 240L bins is excessive for a 57-place childcare centre. It is akin to generating 75L of general waste a week and 36L of recycling waste a week per child. The majority of the centre caters for older children in the 2-5 years bracket which generates minimal disposable nappy waste. The remainder of the waste is generally generated by food scraps. To throw away a conservative figure of 50L of general waste per child in food scraps would send the centre broke from their grocery bill.

Lastly, the generation rates are taken from Randwick Council which no longer utilises those rates for Childcare.



A more realistic measurement for waste generation would be to adopt the City of Sydney Guideline for Waste Management in New Developments which was adopted in August 2018

Non-residential developments	Expected litres per 100m <sup>2</sup> per day*		
	waste	recycling	food waste
<b>Community</b>			
General (including libraries)	20	50	5
Child care centres and facilities with kitchens	50	50	15

\* Based on data from the Commercial Waste Data Review commissioned by the City of Sydney, document dated 22 Feb 2017. General waste (uncompacted putrescible) and co-mingled recycling waste density factors are applied according to Western Australia Waste Authority figures. Food waste generation is based on a 2016 analysis of the City of Sydney businesses.

## Waste Generation Per Week – City of Sydney - 2018

Floor Area	Waste Generation Rates**	Waste Generation Per Day	Waste Generation Per Week*	Nominates Waste Bin	Total Number of Bins
341m <sup>2</sup>	65L/100m <sup>2</sup>	222L	1,108L	240L Bins	5 Bins

## Recycling Generation Per Week – City of Sydney - 2018

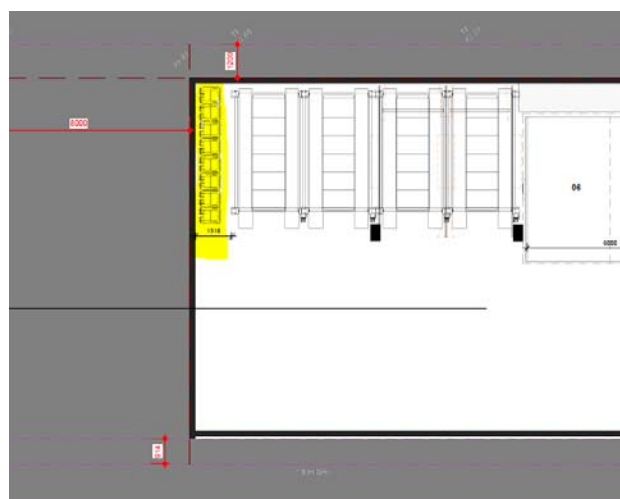
Floor Area	Waste Generation Rates**	Waste Generation Per Day	Waste Generation Per Week*	Nominates Waste Bin	Total Number of Bins
341m <sup>2</sup>	50L/100m <sup>2</sup>	171L	853L	240L Bins	4 Bins

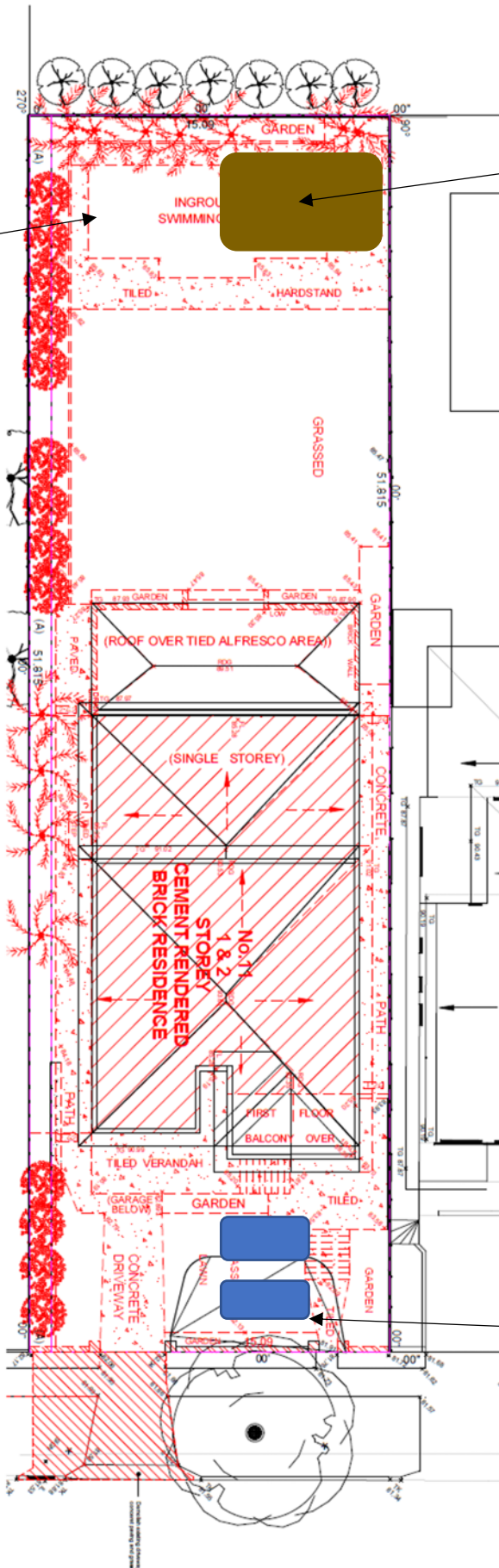
\* weekly generation is based on 5 days as the centre does not operate over the weekend.

\*\* Combined Waste and Food Waste generation rates

Using the City of Sydney waste generation rates are in line with the proposed centre.

There is sufficient room to store the bins at the rear of the carpark.





Stockpile for reusable items

Stockpile area during excavation

Red areas to be demolished

Refer to sediment control Plan for stormwater protection

Skip Bins