



environmental management  
pty ltd

# CONSTRUCTION WASTE MANAGEMENT PLAN (CWMP)

## NEW PRIMARY SCHOOL AT GOOGONG

### REVISION NUMBER:

VERSION 1

### REPORT DATE:

12/05/2021

### SUBMITTED TO:

PAUL TODHUNTER

HANSEN YUNCKEN PTY LTD

### PRESENTED BY:

JO DRUMMOND

ECCELL ENVIRONMENTAL MANAGEMENT  
35 WAVERLY CRST, BONDI JUNCTION 2022  
[www.eccellenvironmental.com.au](http://www.eccellenvironmental.com.au)

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## DISCLAIMER

This report is based on information provided by Hansen Yuncken Pty Ltd. To that extent this report relies on the accuracy of the information provided to the consultant. This report is not a substitute for legal advice on the relevant environmental related legislation, which applies to businesses, contractors or other bodies. Accordingly, EcCell Environmental will not be liable for any loss or damage that may arise out of this project.

## DOCUMENT CONTROL

ISSUE NUMBER	DATE	COMMENT	AUTHOR	REVIEW
VERSION 1	12/05/2021	Issue	Simon Lunn	Jo Drummond

## INTRODUCTION

### OVERVIEW

This Construction Waste Management Plan (CWMP) accompanies an Environmental Impact Statement (EIS) pursuant to Part 4 of the Environmental Planning and Assessment Act 1979 (EP&A Act) in support of an application for a State Significant Development (SSD-10326042).

The development is for a new primary school located on land bound by Gorman Drive, Aprasia Avenue, Wilkins Way and McPhail Way in Googong.

This report addresses the relevant Secretary's Environmental Assessment Requirements (SEARs), namely:

- SEARs 18

The purpose of this CWMP is to:

- a) Identify, quantity and classify waste streams to be generated during construction.
- b) Identify appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.
- c) To ensure storage and collection of waste is designed and managed having appropriate regard to space, location, amenity and ongoing management of waste management facilities.
- d) Describe measures to be implemented to manage, reuse, and recycle and safely dispose of the waste.
- e) To maximise reuse and recycling of demolition and construction materials and materials from development.
- f) To encourage building design techniques in general which minimise waste generation.
- g) To minimise the amount of waste being deposited to landfill with targets to reuse or recycle at least 90% of construction and demolition waste as per the EFSG DG02 2.7.1 Construction and demolition waste requirements.

### PROJECT DESCRIPTION

#### The Proposal

The proposed development is for construction and operation of a new primary school in Googong that will accommodate up to 700 students.

The proposed development is a Core 35 school and includes:

- A collection of 1-2 storey buildings containing 30 home base units, 3 special education learning units, canteen, hall, library and administrative facilities.
- On-site carpark with 60 spaces and on-street kiss-and-ride facilities.
- Outdoor sports court and play area.
- Integrated landscaping, fencing and signage.

#### Site Description

The site is located at Aprasia Avenue, Googong, and is formally described as Lot 3 DP1179941 (refer to Figure 1). The site is irregular in shape and has an area of 28,118.39m<sup>2</sup>.

The site is located within the Queanbeyan-Palerang Regional Council local government area approximately 10km south of the Queanbeyan Central Business District.

The site is bordered by Aprasia Avenue to the north, Gorman Drive to the southwest, Wilkins way to the east/southeast and McPhail way to the west.

Googong North Village Centre, which contains a child care centre, supermarket, cafes and take-away food outlets, is located approximately 100m west of the site across McPhail Way. The site is otherwise surrounded by low density residential development.

Googong is a recently developed town, with the planning beginning in the early 2000s and the first residents taking up residence in 2014.

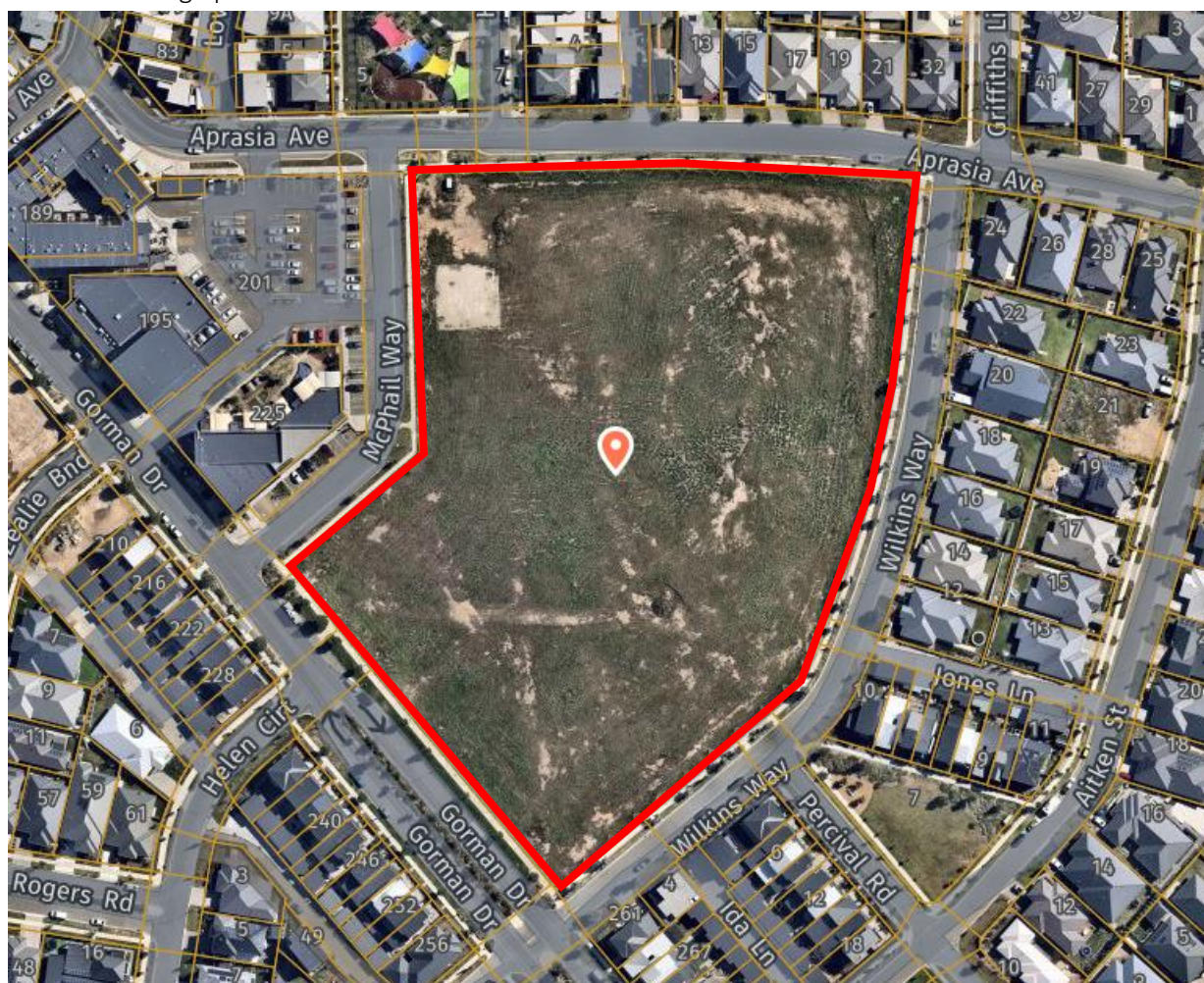


Figure 1 – Site aerial photograph (Source: Nearmap)

### RESPONSE TO SEARS

The CWMP is required by the Secretary's Environmental Assessment Requirements (SEARs) for SSD. This table identifies the SEARs and relevant reference within this report.

Table 1 - SEARs Requirement & CWMP Page Reference

SEARs Item	Report Reference
Classification of the waste.	Page 7-9 PROJECT PHASE
Estimates / details of the quantity of each classification of waste to be generated during the construction of the project, including bulk earthworks and spoil balance.	Page 7-9 PROJECT PHASE
Handling of waste including measures to facilitate segregation and prevent cross contamination.	Page 4 ROLES AND RESPONSIBILITIES

SEARs Item	Report Reference
Management of waste including estimated location and volume of stockpiles.	Page 7-9 PROJECT PHASE
Waste minimisation and reuse.	Page 4 ROLES AND RESPONSIBILITIES
Lawful disposal or recycling locations for each type of waste.	Page 3 SERVICING ARRANGMENTS
Contingencies for the above, including managing unexpected waste volumes.	Page 3 SERVICING ARRANGMENTS

## NSW LEGISLATIVE REQUIREMENTS AND GUIDELINES

Relevant key legislation and guidelines applicable to the project include:

- Protection of the Environment Operations Act 1997
- Protection of the Environment (General) Operations Act 1998
- Waste Avoidance and Resource Recovery Act 2014
- Protection of the Environment Operations (Waste) Regulation 2014
- Waste Classification Guidelines (EPA, 2014)
- NSW Department of Planning and Environment, Secretary's Environmental Assessment Requirements (SEARs)

## WASTE MANAGEMENT STRATEGIES

### SERVICING ARRANGMENTS

The current legislation determines that the generator of waste is the owner of the waste until the waste crosses a calibrated weighbridge into a licensed facility. Waste contractors to demolition and construction contractors are the primary transporters of waste off-site, accordingly, waste contractors will be required to provide verifiable monthly reports on waste reused, reprocessed or recycled (diverted from landfill) or waste sent to landfill. These reports have a direct bearing on the generator's compliance with the relevant regulations.

The CWMP will be implemented on site throughout including singularly or collectively the demolition, construction and fit out phases.

A Waste Data File must be maintained on-site and all entries are to include:

- The classification of the waste
- The time and date of material removed
- A description of and the volume of waste collected
- The location and name of the waste facility that the waste is transferred to
- The vehicle registration and the name of the waste contractor's company

The Waste Data File will be made available for inspection to any authorized officer at any time during the life of the site works. At the conclusion of site works, the designated person will retain all waste documentation and make this validating documentation available for inspection.

Arrangement's will be made with the Waste Contractor to increase bin supply if there is an unexpected increase in waste generation.



## WASTE MANAGEMENT EQUIPMENT, BIN SIZES AND COLLECTION FREQUENCY

All waste will be removed by a licensed waste contractor using 15-meter bins on site. The construction and demolition waste will be removed when bins are full and within the construction site hours to reduce disturbance of the neighbours.

## ROLES AND RESPONSIBILITIES

The waste management strategy for the project will operate over the design, procurement, and construction including fit out of the project and is detailed in Table 2.

**Table 2 - Breakdown of Tasks and Responsibilities**

Management Strategies	Responsibilities
<b><u>Design:</u></b> Design for materials to standard sizes Design for operational waste minimisation Consider ways to avoid, reuse and recycle construction wastes	Architect, Subcontractors Architect & Builder Subcontractors.
<b><u>Procurement:</u></b> Select recycled and reprocesses materials Select components that can be reused after deconstruction Prioritise suppliers that take back offcuts and unused product. Encourage contractors and subcontractors that use unneeded offcuts and unused product for use on other jobs Ordering the right quantities of materials (Purchasing Policy); Include prefabrication of materials	Architect, Engineer, Builder & Sub Contractors Architect, Engineer & Builder Sub-Contractors Sub-Contractors
<b><u>Pre-construction:</u></b> Waste management plan to be reviewed & approved prior to construction. Contract a Waste Contractor	Builder Waste Contractor
<b><u>Construction on-site:</u></b> Use the avoid, reuse, reduce, recycle principles Minimisation of recurring packaging materials Returning packaging to the supplier Separation of recycling of materials off site Audit & monitor the correct usage of bins Audit and monitor the Waste Contractor	Builder & Waste Contractor Sub-contractors Builder & Sub-contractor Waste Contractor Builder & Waste Contractor Builder
<b><u>Avoiding construction waste</u></b> Reduce extraneous packaging use reusable padding and careful packing. All packaging generated on site should be captured for reuse or recycling wherever possible. Reuse formwork; Use reuse non-returnable containers on the job site to the maximum extent possible	Builder

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### ON SITE WASTE MANAGEMENT REQUIREMENTS

There will be a designated waste storage area for the disposal and storage of construction waste prior to collection. This area will be located conveniently for demolition and construction work team to use the bins as well as for waste contractors to collect. An indicative location has been provided in Appendix A. Other requirements include:

- The routes for movement of waste between work site and waste storage area are to be kept obstruction-free.
- The routes for movement of bins and waste between storage and collection points are marked in the site drawing, and will be kept obstruction-free (if waste is moved between the waste storage area(s).
- The waste bin collection point provided will be accessible for waste collection vehicles. There are no obstructions to turning or reversing, pulling up vehicles and lifting bins.
- Access for waste collection vehicles will not be compromised by construction-related activities vehicles or other consequences of construction staging.
- All waste not being reused on site will be removed during, or at the completion of, the construction stage.
- No waste will be left on site unless it is part of valid reuse on site, which is integral to and in place in the design.
- In order to manage noise levels, collection of waste from the construction site will only occur during hours approved for construction work.
- All vehicles entering or leaving the site must have their loads covered.
- All vehicles, before leaving the site, to be cleaned of dirt, sand and other materials, to avoid tracking these materials onto public roads.
- At the completion of the works, the work site is left clear of waste and debris.



## WASTE MANAGEMENT PLAN APPLICATION

<b>PROJECT:</b>
New primary school at Googong
<b>ADDRESS:</b>
Lot 3, DP 1179941 Gorman Drive, Googong
<b>OWNERS:</b>
Schools Infrastructure NSW (SINSW)
<b>DETAILS OF APPLICANT</b>
Department of Education
<b>DESCRIPTION OF BUILDINGS AND OTHER STRUCTURES CURRENTLY ON THE SITE:</b>
This school is planned to be built on a greenfield site and will be a completely new school.
<b>BRIEF DESCRIPTION OF PROPOSAL:</b>
The proposed development is for construction and operation of a new primary school in Googong that will accommodate up to 700 students.
<b>IF MATERIALS / WASTE IS REUSED ON SITE OR OFF SITE, HOW WILL IT BE RE-USED:</b>
There is minimal excavation of ENM, which will be used back on the site for landscaping. This material will be covered to reduce soil displacement and prevent air pollution.

	Name	Signed	Contact Number	Date
Prepared by:	Jo Drummond		0412214233	12/05/2021

## PROJECT PHASE

### DEMOLITION

Material Type on Site	Estimated Volume (m³) or Weight (t) (Most Favourable → Least)		ON-SITE TREATMENT	OFF-SITE TREATMENT	
	Recycling	Disposal	Proposed reuse and/or recycling collection methods	Disposal / Transport Contractor	Licensed Waste Depot, Licensed Recycling Outlet or Licensed Landfill site
Nil	Nil	Nil	N/A	N/A	N/A
Subtotal	Nil	Nil			
Total	Nil				
Narrative: There is no demolition as this is a greenfield site.					

## EXCAVATION

Material Type on Site	Estimated Volume (m³) or Weight (t) (Most Favourable → Least)			ON-SITE TREATMENT	OFF-SITE TREATMENT	
	Reuse	Recycling	Disposal	Proposed reuse and/or recycling collection methods	Disposal / Transport Contractor	Waste Depot, Recycling Outlet or Landfill site
Excavated Natural Material (ENM) Greenfield site		Reused  Volume TBA	Nil	Reuse for landscaping	N/A	N/A
Sub Total						
TOTAL						
<b>Narrative:</b> There is minimal excavation of ENM, which will be used back on the site for landscaping. This material will be covered to reduce soil displacement and prevent air pollution.						
There may be potential contaminated soils, refer to the contamination reports prior to excavation and re-use of materials on site						

## CONSTRUCTION

Material Type on Site	Estimated Volume (m³) or Weight (t) (Most Favourable → Least)			ON-SITE TREATMENT	OFF-SITE TREATMENT	
	Reuse	Recycling	Disposal	Proposed reuse and/or recycling collection methods	Disposal / Transport Contractor	Waste Depot, Recycling Outlet or Landfill site
Concrete Brick Block- work & Tile		165m³		Co-mingled Bins	TBA	Crushed for road base
Metals		85m³		Co-mingled Bins	TBA	Scrap Metal Dealer for smelting
Timber off-cuts		175m³		Co-mingled Bins	TBA	Recycled for chips and mulch
Cardboard		142m³		Co-mingled Bins	TBA	Recycled into cardboard
Plasterboard		165m³		Co-mingled Bins	TBA	Recycled as soil conditioner
Plastics, plastic packaging, paint drums*, containers		75m³	30m³	Co-mingled Bins	TBA	- Styrene and plastic to landfill * Paint drums nested and recycled
Pallets and Reels	65 units			Separated onsite	TBA	Returned to the supplier
Liquid Waste			20m³	Separated onsite	TBA	Transferred to licenced landfill
General Waste			151m³	Co-mingled Bins	TBA	Transferred to licenced landfill
Sub Total	NB: 60 units	807 m³	201m³			
TOTAL	1008m³			NB: Plus, an additional 65 pallets (single units returned to suppliers for reuse)		
Narrative:						
As the contracts for all contractors have not been let there are still those including the waste contractor To Be advised (TBA).						
All waste will be co-mingled and taken for off-site separation and reuse or recycling except Pallets and Reels.						

## APPENDIX A DEMOLITION AND CONSTRUCTION WASTE PLAN DRAWING

