CONSTRUCTION WASTE MANAGEMENT PLAN (CWMP)

NEW PRIMARY SCHOOL AT MURRUMBATEMAN

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SUBMITTED TO:

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TABLE OF CONTENTS

INTRODUCTION 1

OVERVIEW 1
PROJECT DESCRIPTION 1
RESPONSE TO SEARS 2
NSW LEGISLATIVE REQUIREMENTS AND GUIDELINES 3

WASTE MANAGEMENT STRATEGIES 3

SERVICING ARRANGMENTS 3
WASTE MANAGEMENT EQUIPMENT, BIN SIZES AND COLLECTION FREQUENCY 3
ROLES AND RESPONSIBILITIES 4
ON SITE WASTE MANAGEMENT REQUIREMENTS 5

WASTE MANAGEMENT PLAN APPLICATION 6

PROJECT PHASE 7

DEMOLITION 7
EXCAVATION 8
CONSTRUCTION 9

APPENDIX A DEMOLITION AND CONSTRUCTION WASTE PLAN DRAWING 10

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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-11233241).

The development is for a new primary school located at 2 Fairley Street, Murrumbateman.

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 with Core 21 facilities in Murrumbateman that will accommodate up to 368 students.
The proposed development includes:

- A collection of 1-2 storey buildings containing 14 home base units, 2 special education learning units, hall, administration facilities and library.
- On-site parking lot with 40 spaces and kiss-and-ride area.
- Outdoor sports court and play area.
- Integrated landscaping, fencing and signage.

Site Description

The site is located at 2 Fairley Street, Murrumbateman, in the local government area of Yass Valley Council. The site is formally described as Lot 302 DP1228766 (refer to Figure 1). The site is irregular in shape and has an area of 15,434.92m².
The site is located at the northern end of the Murrumbateman village, which is characterised by a mix of uses including low density residential and some commercial.

Immediately surrounding development includes a tourist hotel to the north across Fairley Street, Murrumbateman Library (located in the former Murrumbateman schoolhouse, a local heritage item) to the south, a medical centre and childcare centre to the west, and rural land and equestrian facilities to the east across Barton Highway. There is also a cycling and equestrian pathway to the south between the site and library.

The site contains an existing parking lot in its northern end and a driveway along its western boundary. There is also a mound of soil at the southern end of the site. The site is otherwise cleared and vacant.

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

Management of waste including estimated location and volume of stockpiles.	Page 7-9 PROJECT PHASE
Waste minimization 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
Design:	
Design for materials to standard sizes	Architect, Subcontractors
Design for operational waste minimisation	Architect & Builder
Consider ways to avoid, reuse and recycle construction wastes	Subcontractors.
Procurement:	
Select recycled and reprocesses materials	Architect, Engineer, Builder & Sub Contractors
Select components that can be reused after deconstruction	Architect, Engineer & Builder
Prioritise suppliers that take back offcuts and unused product.	Sub-Contractors
Encourage contractors and subcontractors that use unneeded offcuts and unused product for use on other jobs	
Ordering the right quantities of materials (Purchasing Policy);	Sub-Contractors
Include prefabrication of materials	
Pre-construction:	
Waste management plan to be reviewed & approved prior to construction.	Builder
Contract a Waste Contractor	Waste Contractor
Construction on-site:	
Use the avoid, reuse, reduce, recycle principles	Builder & Waste Contractor
Minimisation of recurring packaging materials	Sub-contractors
Returning packaging to the supplier	Builder & Sub-contractor
Separation of recycling of materials off site	Waste Contractor
Audit & monitor the correct usage of bins	Builder & Waste Contractor
Audit and monitor the Waste Contractor	Builder
Avoiding construction waste	
Reduce extraneous packaging use reusable padding and careful packing.	
All packaging generated on site should be captured for reuse or recycling wherever possible.	Builder
Reuse formwork;	
Use reuse non-returnable containers on the job site to the maximum extent possible	

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

PROJECT:
New primary school at Murrumbateman
ADDRESS:
2 Fairley Street, Murrumabateman, 2582, NSW (Lot 302 DP1228766)
OWNERS:
Schools Infrastructure NSW (SINSW)
DETAILS OF APPLICANT
Department of Education
DESCRIPTION OF BUILDINGS AND OTHER STRUCTURES CURRENTLY ON THE SITE:
This school is planned to be built on a greenfield site and will be a completely new school.
BRIEF DESCRIPTION OF PROPOSAL:
The project consists of a school with core facilites for a Core 21 school and homebases for a capacity of 368 students.
IF MATERIALS / WASTE IS REUSED ON SITE OR OFF SITE, HOW WILL IT BE RE-USED:
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	Jo Drummond	0412214233	12/05/2021

PROJECT PHASE

DEMOLITION

Material Type on Site	Estimated Volume (m^3) 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 (m^3) 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						

Narrative: 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 (m^3) 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		105 m^3		Co-mingled Bins	TBA	Crushed for road base
Metals		45 m^3		Co-mingled Bins	TBA	Scrap Metal Dealer for smelting
Timber off-cuts		125 m^3		Co-mingled Bins	TBA	Recycled for chips and mulch
Cardboard		90 m^3		Co-mingled Bins	TBA	Recycled into cardboard
Plasterboard		105 m^3		Co-mingled Bins	TBA	Recycled as soil conditioner
Plastics, plastic packaging, paint drums*, containers		45 m^3	25 m^3	Co-mingled Bins	TBA	- Styrene and plastic to landfill * Paint drums nested and recycled
Pallets and Reels	40 units			Separated onsite	TBA	Returned to the supplier
Liquid Waste			15 m^3	Separated onsite	TBA	Transferred to licensed landfill
General Waste			115m^3	Co-mingled Bins	TBA	Transferred to licensed landfill
Sub Total	**40 units**	**515 m^3**	**155 m^3**			
TOTAL	**670 m^3**			**NB: Plus, an additional 40 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