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CONSTRUCTION WASTE MANAGEMENT PLAN (CWMP)

NEW PRIMARY SCHOOL IN EDMONDSON PARK

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VERSION 2

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DISCLAIMER

This report is based on information provided by Richard Crookes Constructions. 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
VERSION 2	11/06/2021	Issue	Simon Lunn	Jo Drummond

INTRODUCTION

OVERVIEW

This Construction Waste Management Plan (CWMP) has been prepared by EcCell Environmental on behalf of the School Infrastructure NSW (the Applicant). It accompanies an Environmental Impact Statement (EIS) in support of State Significant Development Application (SSD-10224) for the new primary school in Edmondson Park on the corner of Buchan Avenue and Faulkner Way, Edmondson Park (the site).

The purpose of this CWMP is to meet the key waste requirements issues of the Secretary's Environmental Assessment Requirements (SEARs) Section 4.12 (8) of the *Environmental Planning Assessment Act 1979* and will:

- 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 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.
- h) Address relevant requirements of the Waste Classification Guidelines (EPA, 2014).

PROJECT DESCRIPTION

The SSDA seeks approval for a new core 35 primary school accommodating 1,012 students and a **coldshell** 40 place pre-school at the site. The works comprise:

- Site preparation and excavation;
- Land use for the purpose of a new primary school and pre-school;
- Construction of new buildings including:
 - A three storey building on the western portion of the site primarily addressing Faulkner Way comprising 36 homebases, 4 special support unit teaching spaces, staff room, administration office at the ground floor and library at the first floor addressing the corner of Buchan Avenue and Faulkner Way, and student amenities;
 - A single storey **coldshell** preschool building for educational programs for children the year before they commence kindergarten, accommodating 40 places. The pre-school building will be connected at the southern end of the three storey building; and
 - A single storey building on the eastern portion of the site comprising a communal hall, out of school hours care facility, 8 homebases and covered outdoor learning area.
- Landscaping and public domains works including tree planting, a sports court and creation of various assembly, play and learning zones;
- A drop-off and pick-up zone, and bus zone on Buchan Avenue;

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- An at-grade staff carpark in the southern part of the site with ingress and egress provided off Faulkner Way at the south-west corner of the site;
- Primary pedestrian entrance from Buchan Avenue and an additional entrance on Faulkner Way for the ground floor support unit; and
- Other ancillary infrastructure and utilities works and digital signage.

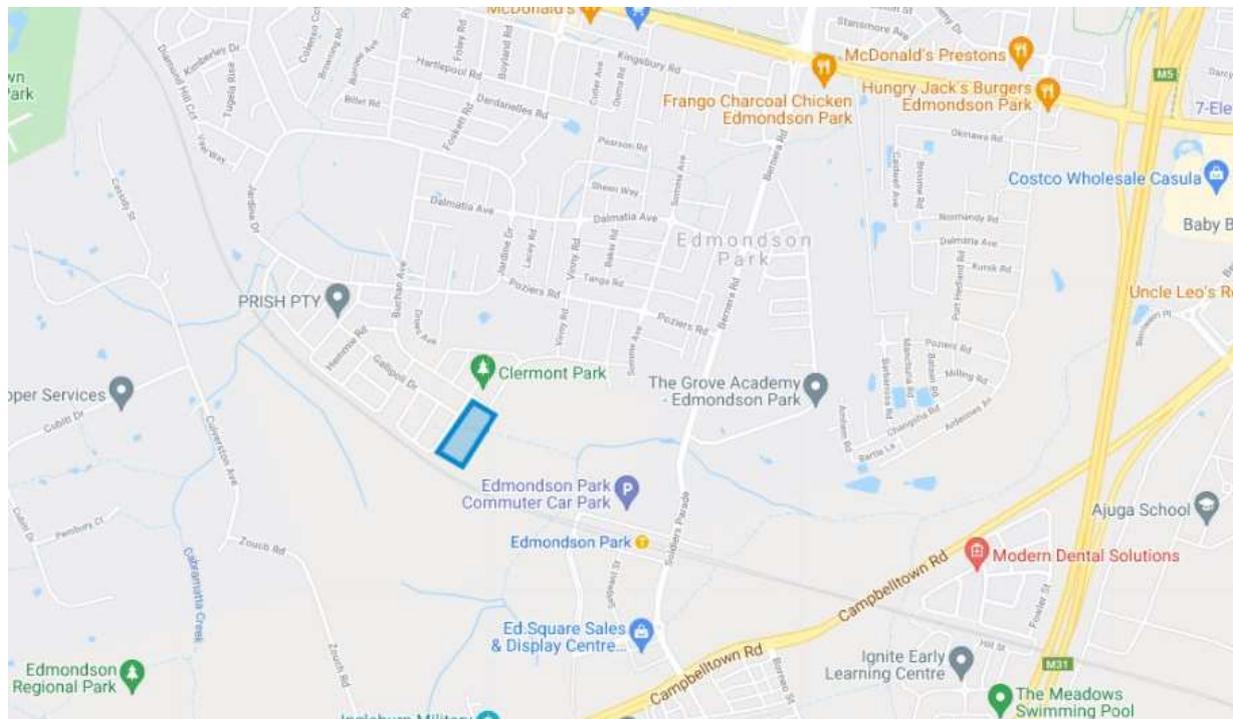


Figure 1 – Approximate Site Location (Source: Google Maps)

RESPONSE TO SEARS

The CWMP is required by the Secretary’s Environmental Assessment Requirements (SEARs) for SSD-10224. 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&8 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&8 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 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 construction teams 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 through the 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.

CONSTRUCTION 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 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
<p><u>Design:</u> Use of modular components in design Use of prefabricated components in design Design for materials to standard sizes Design for operational waste minimisation Consider ways to avoid, reuse and recycle construction wastes</p>	Architect & Engineer Architect & Builder Architect & Subcontractors Architect & Builder Subcontractors.
<p><u>Procurement:</u> Select recycled and reprocessed 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</p>	Architect, Engineer, Builder & Sub Contractors Architect, Engineer & Builder Sub-Contractors Sub-Contractors
<p><u>Pre-construction:</u> Waste management plan to be reviewed & approved prior to construction Contract a Waste Contractor</p>	Builder Waste Contractor
<p><u>Construction on-site:</u> 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 and monitor the correct usage of bins Audit and monitor the Waste Contractor</p>	Builder & Waste Contractor Sub-contractors Builder & Sub-contractor Waste Contractor Builder & Waste Contractor Builder
<p><u>Avoiding construction waste</u> 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 modular components Use reuse non-returnable containers on the job site to the maximum extent possible</p>	Builder



ON SITE WASTE MANAGEMENT and STORAGE 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 the 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:

- Construction waste storage is contained wholly within the site identified as Lots 1 & 2
- 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 in Edmondson Park
ADDRESS:
Corner of Buchan Avenue and Faulkner Way
OWNERS:
School 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 SSDA seeks approval for a new core 35 primary school accommodating 1,012 students and a 40 place pre-school at the site.
IF MATERIALS / WASTE IS REUSED ON SITE OR OFF SITE, HOW WILL IT BE RE-USED:
<p>The ground surface comprised exposed clay, and vegetation (grass, shrubs and weeds) in good condition. There is minimal excavation of Excavated Natural Material (ENM), which will be used back on the site for landscaping. This material will be covered to reduce soil displacement and prevent air pollution.</p> <p>A single ACM fragment was encountered on the site’s ground surface during the site contamination investigation and the sample was removed from site. No additional asbestos fragments were observed across the site during the DSI. Given that one isolated fragment was identified, specific management is considered not to be required, as such occurrences would be best managed under a standard construction period environmental management plan (EMP)/unexpected finds protocol (UFP) framework, whereby any isolated occurrences could be identified and disposed of appropriately.</p>

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



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PROJECT PHASE

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	Used for site levelling / cut & fill of the site.	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. A Detailed Site Investigation (DSI) *“Edmondson Park Precinct 9 Site Contamination Assessment Buchan Avenue, Edmondson Park 19 April 2021 59033/136,760 (Rev B) JBS&G”* for the site concludes the site is suitable for its proposed use.

A single ACM fragment was encountered on the site’s ground surface during the site contamination investigation and the sample was removed from site. No additional asbestos fragments were observed across the site during the DSI. Given that one isolated fragment was identified, specific management is considered not to be required, as such occurrences would be best managed under a standard construction period environmental management plan (EMP)/unexpected finds protocol (UFP) framework, whereby any isolated occurrences could be identified and disposed of appropriately.



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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		57m ³		Co-mingled Bins	TBA	Crushed for road base
Metals		20m ³		Co-mingled Bins	TBA	Scrap Metal Dealer for smelting
Timber off-cuts		37m ³		Co-mingled Bins	TBA	Recycled for chips and mulch
Cardboard		22m ³		Co-mingled Bins	TBA	Recycled into cardboard
Plasterboard		24m ³		Co-mingled Bins	TBA	Recycled as soil conditioner
Plastics, plastic packaging, paint drums*, containers		22m ³	25m ³	Co-mingled Bins	TBA	- Styrene and plastic to landfill * Paint drums nested and recycled
Pallets and Reels	20 units			Separated onsite	TBA	Returned to the supplier
Liquid Waste			27m ³	Separated onsite	TBA	Transferred to licenced landfill
General Waste			67m ³	Co-mingled Bins	TBA	Transferred to licenced landfill
Sub Total	NB:20 units	182m³	119m³			
TOTAL	301m³			NB: Plus, an additional 20 pallets (single units returned to suppliers for reuse)		
<p>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.</p>						

APPENDIX A CONSTRUCTION WASTE PLAN DRAWING

