

CONSTRUCTION WASTE MANAGEMENT SUB-PLAN (CWMSPP)

Pendle Hill High School

66 Binalong Road, Toongabbie



E-PLAN-01 (Rev. July 2021) | Amended by:

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1. INTRODUCTION

1.1 PROJECT INFORMATION TABLE

PROJECT INFORMATION TABLE			
PROJECT NAME	Pendle Hill High School		
LOCATION	66 Binalong Rd, Toongabbie		
CLIENT	Department of Education		
DURATION OF CONTRACT	9.5 Months		
TAYLOR CONTACT INFORMATION			
COMPANY NAME	Taylor Construction Group Pty Ltd		
ABN	25 067 428 344		
ADDRESS	Level 13, 157 Walker Street, North Sydney 2060		
TELEPHONE & FAX	Ph.: 02 8736 9000 Fax: 02 8736 9090		
POSITION	CONTACT NAME	PHONE NUMBERS	
Chief Executive Officer	George Bardas		
General Manager Refurbishment & Live Environment	Ben Folkard		
Operations Manager	Chris Bellemore		
Project Manager	Eddie Abramian		
Site Manager	George Boutros		
HSE Manager	Andrew Andreou		
Safety Advisor			
Quality Manager	Stephen Player		
Contract Manager			
Contract Administrator	Ash Zeinolabedin		
Project Engineer			
Site Engineer			
Foreman/ Leading Hand	Joseph Boutros		
Cadet			
DOCUMENT CONTROL	NAME & POSITION	SIGNATURE & DATE	
PREPARED BY: George Boutros	Site Manager		13/09/2021
REVIEWED BY: Eddie Abramian	Project Manager		16/09/2021
REVIEWED BY:			
REVIEWED BY:			
REVISED BY	REV. No.	DATE	CHANGES MADE
Eddie Abramian	2	16/09/2021	Update to satisfy condition B15 requirement
Eddie Abramian	3	22/10/2021	SINSW Planning Amendments
Eddie Abramian	4	25/10/2021	Address Change from Cornock to Binalong Rd

1.2 PROJECT OVERVIEW AND SITE DESCRIPTION

Construction of new buildings to include 14 new permanent teaching spaces and the following core facilities built to Stream 12: - Lecture Learning unit, Library Unit, Administration Unit, Staff Unit, Student Amenities.
As well as refurbishments to Block E (existing library) and Block A (existing administration.)

1.3 PURPOSE OF THE CONSTRUCTION WASTE MANAGEMENT SUB-PLAN

Taylor Construction Group is committed to improving sustainability on all of its projects: we aim to reduce the environmental impact of our operations and enable the integration of sustainability principles and practices to all activities carried out on site. Our goal on this project is to maximise the re-use of waste products, therefore minimizing the amount of waste going to landfill. The Construction Waste Management Sub-Plan (CWMSP) incorporates the processes that will assist the project team in achieving this goal, whilst providing the necessary means to ensure waste management is efficient, cost-effective and compliant to NSW waste regulations.

Furthermore, the plan is required to adhere to the requirements of the projects State Significant Development Condition B15, extract below Compliance Table:

Reference	Requirement	Response
B15	The Construction Waste Management Sub-Plan (CWMSP) must address, but not be limited to, the procedures for the management of waste including the following:	
(a)	the recording of quantities, classification (for materials to be removed) and validation (for materials to remain) of each type of waste generated during construction and proposed use;	Section 5.6 – Waste Classification, Quantities and Management Practices.
(b)	information regarding the recycling and disposal locations; and	Section 5.6 – Table for Recycle/Disposal Location.
(c)	confirmation of the contamination status of the development areas of the site based on the validation results.	Section 5.7 – Validation

2. WASTE MANAGEMENT RESPONSIBILITIES

The site manager is the CWMSP coordinator of the project and, as such, is responsible for ensuring the instruction of workers and for implementing and overseeing the CWMSP.

The site manager will monitor the effectiveness and accuracy of the CWMSP during the routine site visits. Independent audits will also be completed by the HSE manager via site inspections. Copies of these reports will be forwarded to the HSE manager for monitoring.

Schedule for the routine visits is weekly under our weekly HSE inspections. Documentation is uploaded on our Hammertech system.

3. DISTRIBUTION

This CWMSMP will be communicated to the whole project team by the contract manager, who shall also distribute copies to the relevant authorities, client, project/ site manager and each subcontractor where relevant/ applicable. This will be undertaken every time the plan is updated.

Accordance with SSD-9579147 Condition B12 & B15 – The Construction Waste Management Sub-Plan (CWMSMP) will require submission to the Certifier (Blackett Maguire + Goldsmith) and the Planning Secretary (DPIE).

4. INSTRUCTION AND TRAINING

The site manager shall provide on-site briefing via induction of appropriate separation, handling, recycling, re-use and return methods to be adopted by all parties and at appropriate stages of the project. Toolbox talks will be carried out regularly on waste issues and all subcontractors will be expected to attend. These toolbox talks are aimed at providing employees and subcontractors with the necessary information and instruction regarding waste management so that they understand the importance of the role they play and feel motivated to work together toward the same goals.

5. WASTE MANAGEMENT ON SITE

5.1 CATEGORIES

Waste materials fall into four categories for management. These are:

1. **Reuse.** If surplus materials can be used in future operations, they are classified as materials that can be reused.
2. **Recycling.** If surplus materials cannot be reused in their present form, they will be sent to recycling.
3. **Residual waste.** Residual waste can come in several forms, including waste that cannot be disposed of due to their nature (i.e. metals, contaminated waste), unused machinery, spare parts or discarded parts.
4. **Landfill.** If the above options cannot be satisfied, materials will be sent to landfill. The project team must make all the necessary efforts to reuse and recycle materials generated on site. **Landfill must be avoided and will only be used as a last resort.**

5.2 WASTE REGULATIONS IN NSW

Acts and regulations govern waste management in NSW. According to EPA, those who handle, store, transport, process, recycle and dispose of waste must follow these rules to minimize harm to human health and to the environment. The waste legislation in NSW is as follows:

Protection of the Environment Operations Act 1997. It is the principal environmental protection legislation for NSW. The act:

- Defines 'waste' for regulatory purposes;
- Establishes management and licensing requirements for waste;
- Defines offences relating to waste and sets penalties;
- Establishes the ability to set various waste management requirements via the Protection of the Environment Operations (Waste) Regulation 2014 (Waste Regulation).

Protection of the Environment Operations (Waste) Regulation 2014. The Waste Regulation allows the EPA to protect human health and the environment and provides a platform for a modern and fair waste industry. It includes strict thresholds for environment protection licenses and outlines the waste levy system.

Waste Avoidance and Resource Recovery Act 2001. The Waste Avoidance and Resource Recovery Act 2001 (WARR Act) promotes waste reduction and better use of our resources in NSW. It includes provisions for waste strategies and programs and for industry actions to reduce waste.

5.3 WAYS OF MINIMISING WASTE

Daily activities on this project will generate a wide range of residues such as general waste, obsolete infrastructure and/ or contaminated/ hazardous materials. With a view to maximizing waste management, the following waste hierarchy principles must be followed:

1. Reduce

Minimise waste production and over-consumption of materials by:

- Incorporating design and building practices that minimise waste production;
- Not over-ordering products or materials;
- Specifying project requirements and planning ahead to avoid over-consumption of products and materials;
- Minimising rework from errors and poor workmanship;
- Ensuring storage areas are safe and secure;
- Arranging deliveries to match work stages to avoid materials being stored on site longer than necessary.

2. Reuse

Wherever possible, reuse surplus or salvaged materials on site, off-site or on other projects:

- Establish a system whereby all products that can be reused (for the same purpose or for a new one) are identified and stored;
- Repair items so they can be reused or returned to the supplier.

3. Recycle

All materials that can be recycled must be separated and sent to a recycling facility.

5.4 DISPOSAL OF HAZARDOUS WASTES

All hazardous or dangerous materials found or to be used during the demolition and construction phases must be handled and disposed of by competent persons only, in accordance with the EPA NSW guidelines. These materials can include:

- Dangerous or hazardous liquids;
- Asbestos waste;
- Waste lead acid batteries;
- Contaminated soil;
- Fluorescent tubes and HID lamps, etc.

5.5 CONSTRUCTION WASTE MANAGEMENT SUB-PLAN CHECKLIST

Item description	Yes	No
Have the recycling and waste contractors been identified?	☒	☐
Have terms and commercial rates been agreed with contractors?	☒	☐
Has each material to be used on site been identified?	☒	☐
Have all hazardous and toxic materials (e.g. asbestos) been identified and do they comply with SafeWork NSW requirements?	☒	☐
For off-site or disposal, have all the waste destination details been verified?	☒	☐
Has a waste segregation/ collection area been prepared?	☒	☐
Has the waste area been adequately signposted?	☒	☐

Has the quantity of general waste to be produced on site been estimated? Is this estimation realistic?	☒	☐
Has the person responsible ensured not to over order on materials?	☒	☐
Has the CWMSP been approved by the contract manager?	☒	☐
Is returning waste to the supplier an option (e.g. plasterboard)?	☒	☐
Has the CWMSP document control/ filing system been set up (site safety pack)?	☒	☐
Has the CWMSP been communicated to the whole team and to the contractors?	☒	☐
Have all the CWMSP training/ induction procedures for staff been met?	☒	☐
Have all the CWMSP training/ induction procedures for contractors been met?	☒	☐
Comments/ further actions		

5.6 WASTE CLASSIFICATION, QUANTITIES AND MANAGEMENT PRACTICES

A specific area shall be laid out and labelled to facilitate the separation of materials for potential recycling, salvage, reuse and return. Recycling and waste bins are to be kept clean and clearly marked in order to avoid contamination of materials.

Monitoring must take place to ensure contamination of segregated skips does not occur. The type of surplus materials being produced must be continually reviewed and site set-up modified where possible to maximise reuse and recycling. The use of landfill will be the last resort.

Project	Comparable Project Pendle Hill High School	Recycle or Disposal Destination & EPA Licence	Recycle or Disposal Address
Total Waste Recycled (%)	98.70%		
Total Waste Landfill (%)	1.30%		
Vegetation Waste	9.14%	Cleanaway 20937	35-37 Frank St, Wetherill Park
Concrete, Brick, Tiles	30.99%	Boral 11815	38a Wildermere Rd, Wetherill Park
Fill/VENM	9.76%	Cleanaway 20937	35-37 Frank St, Wetherill Park
Asphalt	2.17%	Boral 11815	38a Wildermere Rd, Wetherill Park
Timber	18.03%	Cleanaway 20937	35-37 Frank St, Wetherill Park
Glass	0.00%	Dump It Centre	13 Long Street, Smithfield NSW 2164
Paper & Cupboard	5.95%	Grima 20648	88 Redfern St, Wetherill Park
Plastic	3.70%	Grima 20648	88 Redfern St, Wetherill Park
Plasterboard	11.03%	Grima 20648	88 Redfern St, Wetherill Park
Steel / Iron	6.51%	Sell & Parker 11556	45 Tattersall Rd, Kings Park
Non-Ferrous Metal	0.73%	Sell & Parker 11556	45 Tattersall Rd, Kings Park
Food - Organics	0.07%	Dump It Centre	13 Long Street, Smithfield NSW 2164
Other	0.29%	Dump It Centre	13 Long Street, Smithfield NSW 2164
Other - Mixed	1.63%	Dump It Centre	13 Long Street, Smithfield NSW 2164

5.7 VALIDATION

Materials remaining on site i.e. soil from cut and fill to Block H (main build) will be validated under the Remediation Action Plan guidelines (*Douglas Partners Remediation Action Plan Project No. 86977.01 R.004.Rev2*). Our project engaged Environmental Auditor; Tim Chambers will be responsibly for validation of materials remaining on site under the Remediation Action Plan. Visits to validate materials remaining on site will be undertaken predominately at the commencement of the project during ground works and at the end of the project during landscaping.

The project will not require importation of any VENM or ENM and any necessary associated validation of the materials.

6. RELEVANT SIGNATURES

Project Manager (name and signature)	Eddie Abramian 	Date	16/09/2021
Site Manager (name and signature)	George Boutros 	Date	13/09/2021