

Construction Waste Management Plan

Lot 642 Googong NSW

Milin Builders Pty Ltd ABN 51 145 495 067

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Reference	Date	Prepared	Checked	Authorized
MB-WMP-v1.0	18/6/2024	Greg Brown	M.G.	Mel Grebowski

1 Introduction

This project is currently being assessed by QPRC application number DA.2024.0027 for a multi-dwelling residential housing development consisting of 163 single-level apartments across 6 buildings ranging from 3 to 5 levels, with lower ground parking and a basement and associated site works.

This Construction Waste Management Plan (WMP) has been prepared in response to Matter 21 of the Request for Further Information dated 6 June 2024 from QPRC. Refer below extract:

21. Waste Management Plan

A Waste Management Plan, prepared by a suitably qualified or experienced professional, shall be submitted to Council for approval. The waste management plan shall include:

- a) Construction
 - i. Estimated quantities of construction waste broken down into major waste streams.
 - ii. Description of how construction waste will be avoided, reused, recycled or otherwise safely and legally diverted from landfill for the duration of construction works.
 - iii. Estimated quantities of construction waste to be landfilled, reused, recycled, or otherwise safely and legally diverted from landfill.
 - iv. Estimated quantities of excavated natural material (ENM), the expected classification of ENM and how ENM will be managed and disposed.
 - v. Generally addressing how this project is contributing to the NSW Waste and Sustainable Materials Strategy 2041 (NSW DPIE, June 2021) target to achieve "80% average recovery rate from all waste streams by 2030".

It is envisioned that this project will contribute to the NSW Waste and Sustainable Materials Strategy 2041 target to achieve 80% average recovery rate from all waste streams by 2030 in the following ways:

- **Material Selections** – Extensive use of materials such as precast concrete panels and steel façade features that are durable, recyclable and have a long life span.
- **Flexible Design** – Multiple floor plans ranging from 1 to 3 bedrooms as well as commercially adaptive units to allow different uses over time, reducing the need for demolition.
- **Efficient Planning** – Implementation of detailed planning and scheduling to reduce over-ordering and waste of materials.
- **On-Site Sorting** – Designated on-site sorting facilities to segregate different types of waste for easier recycling.
- **Compliance** – Ensure compliance with all relevant regulations and standards for waste management.
- **Awareness and Training Programs:** Provide training for workers on waste reduction practices and the importance of recycling on site.
- **Waste Audits:** Assess the types and quantities of waste generated to identify opportunities for reduction and recycling.

2 Waste streams and classifications

The Construction of the project is likely to generate the following broad waste streams:

- Site clearance/demolition waste;
- Construction waste;

- Plant maintenance waste;
- Packaging waste; and
- Work compound waste from on-site employees.

3 Proposed Management Method

A summary of likely waste types generated from site preparation and construction activities, along with their waste classifications and proposed management methods, is provided in **Table 1** below.

Table 1 - Potential waste types and their management methods

Waste Types	NSW EPA Waste Classification	Proposed Management Method
Site Clearance		
Green waste including timber, pine and particle board	Pre-classified general solid waste (non-putrescible)	Separated, some chipped and stored on-site for landscaping, remainder to landscape supplies or off-site recycling. Stumps and large trees to landfill.
Clean fill	General solid waste (non-putrescible)	On-site re-use if NEPMs are met
Contaminated fill	To be classified subject to the results of testing, as per EPA waste guidelines	Off-site treatment or disposal to landfill
Excavated natural material (ENM) or virgin excavated natural material (VENM)	General solid waste (non-putrescible)	On-site re-use of topsoil for landscaping of the site, off-site beneficial re-use or send to landfill site.
Construction		
Sediment fencing, geotextile materials	General solid waste (non-putrescible)	Reuse at other sites where possible or disposal to landfill
Concrete	General solid waste (non-putrescible)	Off-site recycling for filling, levelling or road base
Bricks and pavers	General solid waste (non-putrescible)	Cleaned for reuse as footings, broken bricks for internal walls, crushed for landscaping or driveway use, off-site recycling
Gyprock or plasterboard	General solid waste (non-putrescible)	Off-site recycling or returned to supplier
Sand or soil	General solid waste (non-putrescible)	Off-site recycling
Metals such as fittings, appliances and bulk electrical cabling, including copper and aluminium	General solid waste (non-putrescible)	Off-site recycling at metal recycling compounds and remainder to landfill
Conduits and pipes	General solid waste (non-putrescible)	Off-site recycling
Timber	General solid waste (non-putrescible)	Off-site recycling, Chip for landscaping, Sell for firewood <i>Treated:</i> reused for formwork, bridging, blocking, propping or second-hand supplier <i>Untreated:</i> reused for floorboards, fencing, furniture, mulched second hand supplier Remainder to landscape supplies.

Doors, Windows, Fittings	General solid waste (non-putrescible)	Off-site recycling at secondhand building supplier
Insulation material	General solid waste (non-putrescible)	Off-site disposal
Glass	General solid waste (non-putrescible)	Off-site recycling, glazing or aggregate for concrete production
Fluorescent light fittings and bulbs	Hazardous waste	Off-site recycling or disposal
Paint	Hazardous waste	Off-site recycling or disposal
Waste Types	NSW EPA Waste Classification	Proposed Management Method
Synthetic Rubber or carpet underlay	General solid waste (non-putrescible)	Off-site recycling; reprocessed and used in safety devices and speed humps
Ceramics including tiles	General solid waste (non-putrescible)	Off-site recycling at a crushing and recycling company
Carpet	General solid waste (non-putrescible)	Off-site recycling or disposal; reused for landscaping, insulation or equestrian uses
Plant Maintenance		
Empty oil and other drums or containers, such as fuel, chemicals, paints, spill clean ups	Hazardous waste: Containers were previously used to store Dangerous Goods (Class 1, 3, 4, 5 or 8) and residues have not been removed by washing or vacuuming. General solid waste (non-putrescible): Containers have been cleaned by washing or vacuuming.	Transport to comply with the transport of Dangerous Goods Code applies in preparation for off-site recycling or disposal at licensed facility Note: Discharge to sewer subject to Trade Waste Agreement with local Council
Air filters and rags	General solid waste (non-putrescible)	Off-site disposal
Drained Oil filters	General solid waste (non-putrescible)	Off-site recycling
Commercial lead acid or nickel cadmium Batteries	Hazardous waste	Off-site recycling, Contact the Australian Battery Recycling Initiative ³ for more information
Packaging		
Packaging materials, including wood, plastic, including stretch wrap or LLPE, cardboard and metals	General solid waste (non-putrescible)	Off-site recycling
Wooden or plastic crates and pallets	General solid waste (non-putrescible)	Reused for similar projects, returned to suppliers, or off-site recycling.
Work Compound and Associated Offices		
Food Waste	General solid waste (putrescible)	Dispose to landfill with general garbage
Recyclable beverage containers including glass and plastic bottles, aluminium cans and steel cans	General solid waste (non-putrescible)	Co-mingled recycling at off-site licensed facility or deliver to local NSW container deposit scheme 'Return and Earn' facility ⁵
Clean paper and cardboard	General solid waste (non-putrescible)	Paper and cardboard recycling at off-site licensed facility

General domestic waste generated by workers such as soiled paper and cardboard and polystyrene	General solid waste (non-putrescible) mixed with putrescible waste	Disposal at landfill
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4 Waste Quantities

The following provides a list of estimated targets for waste products generated on this project, (based on historical data from previous similar projects).

It is anticipated that an excavation volume of 49,850m³ of excavated natural material (ENM) with an assumption of 200mm below FFL and noting there is over 8m of fall on the site.

Table 2 - Estimated types and quantities of construction waste

MATERIAL TYPE	Estimated Volume (Tonnes)	Estimated % Recycled	Disposal Location
Soil, Sand	65	85%	ACT Recycling Pty Ltd, Mugga Lane Symonston ACT2609
Concrete, Brick, Asphalt, Tiles	150	95%	
Recyclable Paper/Cardboard	8	90%	
Recyclable Plasterboard	45	90%	
Recyclable timber and green waste	8	90%	
Metal / Steel	25	95%	SIMS Metal Recycles, 47 Alderson Pl, Hume ACT 2620
General (Residual) Waste	120	0%	ACT Recycling Pty Ltd, Mugga Lane Symonston ACT2609
Project targets for Recycled and Non-Recycled waste			
Landfill: Recycled		15%	
Waste		85%	

5 Roles and Responsibilities

The Site Manager will retain the overall responsibility for implementing the construction waste management plan for all construction works undertaken within the project area.

6 Training

All construction workers will be made aware of, and trained, in construction waste management. Training will be undertaken as a part of general site induction and refreshed periodically at toolbox meetings.

Induction training is to cover, as a minimum:

- Legal obligations and targets;
- Emergency response procedures on-site;
- Waste priorities and opportunities for reduction, reuse and recycling;
- Waste storage locations and separation of waste;
- Procedures for suspected contaminated and hazardous waste;
- Waste related signage;
- The implications of poor waste management practices; and
- Responsibilities and reporting, including identification of personnel responsible for waste management and individual responsibilities.

7 Monitoring

Monitoring and inspection will be conducted in accordance with general inspections. Results and actions of monitoring and inspection are to be recorded as specified.

8 Reporting

Reporting will be conducted on a monthly basis and recorded as per item 6.3 of the Milin Builders CMP.

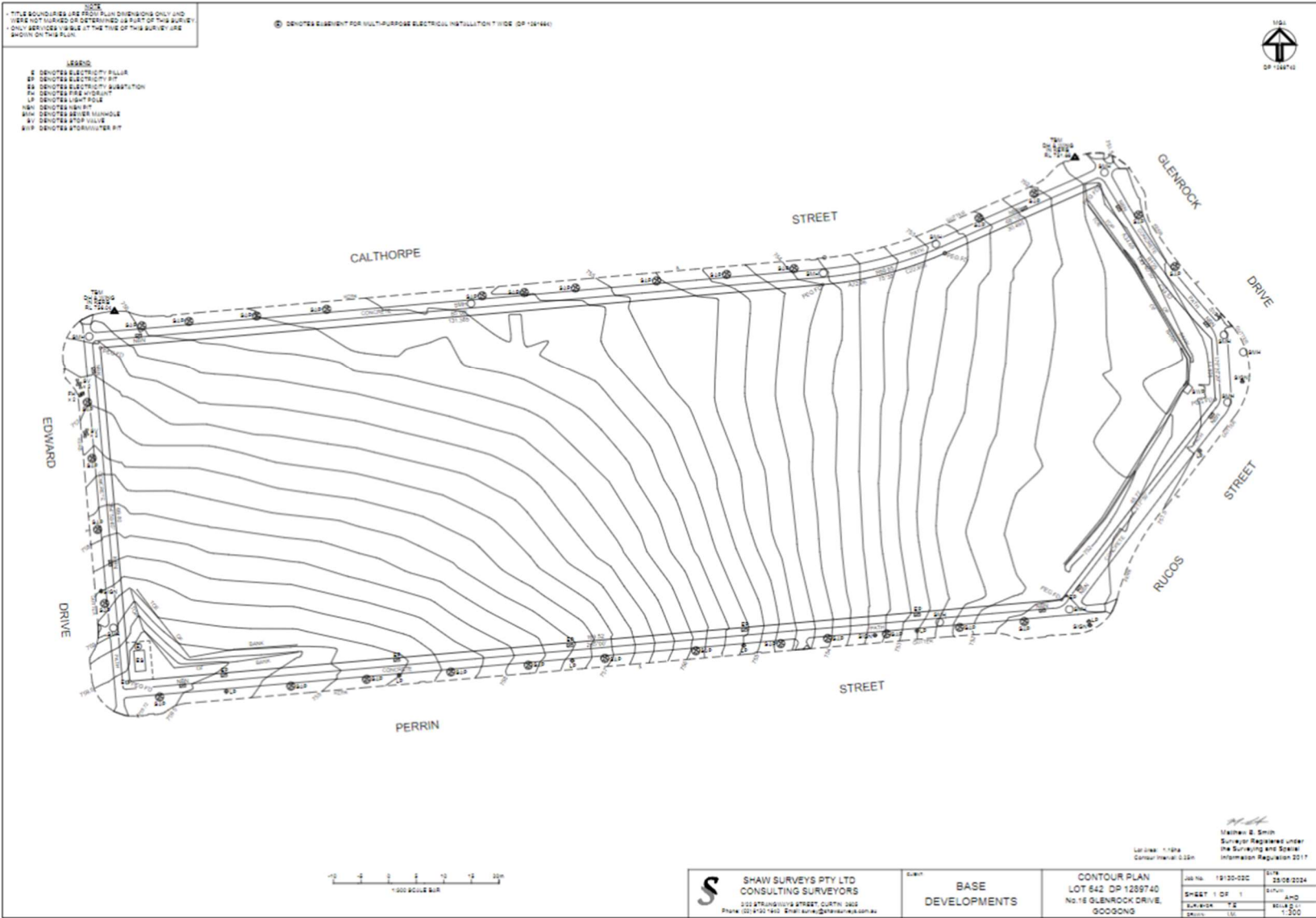
9 Audits

Audits will be conducted on a three (3) monthly basis and recorded as per item 6.4 of the Milin Builder's CMP.

10 References

- Available online from <https://www.epa.nsw.gov.au/your-environment/waste/industrial-waste/construction-demolition>
- Available online from <https://www.epa.nsw.gov.au/licensing-and-regulation/legislation-and-compliance>
- Available online from <https://www.epa.nsw.gov.au/your-environment/recycling-and-reuse/strategic-direction-for-waste-in-nsw/waste-and-sustainable-materials-strategy>

Appendix 1 – Site Plan





EPA Enviro Line 131 555
info@epa.nsw.gov.au
24 hours
7 days a week

We encourage people to report environmental incidents and concerns, including air, noise, water or waste issues to the NSW EPA's 24/7 Environment Line on 131 555 or via our website.

What information is helpful when reporting an issue to the EPA?



Please provide the following information when you ask us to investigate an incident or issue.

- Your **name and contact** details (you may ask for this to be confidential)
- **What** is the issue? (e.g. dust, noise, odour)
- **When** did it happen? (time and date, how long did it last)
- Has this happened before?
- **Where** did it happen? (location details)
- **How** has it impacted the environment, your health or comfort?

Other helpful details - Do you have any photos, video or other evidence?
What were the weather conditions?

Who is responsible?



We work with councils and other agencies to address your environmental concerns.

Information on which agency regulates what is available on the EPA website [here](#).

What are the next steps?



We will provide you with a case number and appoint an officer to review your report in a timely manner.

The EPA may investigate, do an inspection, take photos or samples, or collect records.

How will we keep you informed?



Complex investigations will take time for the EPA. We will advise you how long we think it will take and we will endeavor to come back to you with an update within four weeks.

You can contact the Environment Line for an update or to provide more information any time. Please have your case number handy.

We may contact you again to request further information or seek clarification.

We will inform you of the outcome.