

PEOPLE WHO BUILD



CONSTRUCTI ON WASTE MANAGEMENT SUB PLAN

PROJECT NAME

THE FOREST HIGH SCHOOL

PROJECT NO

ADCO - (3634)

REVISION 03

REVISION DATE: 16/10/2023

CONSTRUCTION WASTE MANAGEMENT SUB PLAN



VERSION CONTROL

Rev. No.	Issue Date	Approved By	Position	Details
V1	08/09/2023	David Lock	Project Construction Manager	Project Commencement
V2	5/10/2023	Alec Christofides	Senior Project Engineer	Project Commencement
V3	16/10/2023	Alec Christofides	Senior Project Engineer	Project Commencement

ADCO PROJECT PERSONNEL CONSULTATION AND SIGN OFF

We, the undersigned, confirm that we have been consulted on the contents of this document providing opportunity for input. The undersigned is to confirm that I have read and understood the contents of this document and agree to implement the requirements of this Plan on this project site.

Note: acknowledgment can also be confirmed through a toolbox meeting documented through Hammertech.

Name	Position	Date
David Lock	Project Manager	16/10/23
Michael Butterworth	Site Manager	16/10/23
Kelsey Godwin-Smith	Senior Design Manager	16/10/23
Scott Cameron	Contracts Administrator	16/10/23
Adam Josifov	Cadet	16/10/23

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GENERAL

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PRINCIPAL CONTRACTORS DETAILS

Name	State Address		ABN
ADCO Constructions Pty Ltd	Address	Level 2, 7-9 West Street	46 001 044 391
	Suburb	North Sydney	
	State	NSW	
	Phone	02 8437 5000	

PROJECT INFORMATION

Project Description	The State-led Frenchs Forest 2041 Place Strategy and Northern Beaches Council's Hospital Precinct. Structure Plan require that The Forest High School be relocated from its current site at Frenchs Forest Road West, Frenchs Forest (Lot 99 DP 1241021) to a new site in order to facilitate the future development and transition of the area to become a Strategic Centre introducing 5,360 additional dwellings and 2,300 new jobs. Accordingly, School Infrastructure New South Wales (SINSW) has identified and acquired a new site for the relocation of the school to Allambie Road, Allambie Heights. Relocation of The Forest High School involves the construction and operation of a new government high school which will increase capacity from 800 students to 1,500 students.
Project Address	187 Allambie Road, Allambie Heights.
Project Duration	March 2023 – July 2025
Separable Portions	N/A

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INTRODUCTION

PURPOSE OF THIS PLAN

This Management Plan has been produced for the following purposes:

- / Compliance to legislation.
- / Establishment of objectives for the project.
- / Identification of risks and the control measures to be used to mitigate such risks.
- / Subcontractor management requirements.
- / Other EHS management requirements as required for this project.

PROJECT WASTE MANAGEMENT

ON SITE MANAGEMENT	General	<ul style="list-style-type: none">/ Waste products will be recycled wherever possible./ Waste bins will be provided and emptied regularly to ensure that the site is kept clean./ General construction waste will be stored in skip bins at a nominated area on site./ Waste that is unsuitable for recycling will be disposed of to an approved landfill site./ No burning of rubbish, wood or other materials is allowed on site./ Tipping dockets will be obtained and a register of removed materials maintained.
	Solids and liquids	<ul style="list-style-type: none">/ Disposal of solid and liquid waste will be by an approved contractor to an approved location./ Liquid waste will be stored in impervious bunded containers at a nominated location on site.
	Concrete	<ul style="list-style-type: none">/ A concrete wash out area will be nominated on site./ Concrete washout will be recycled where possible and used on site to stabilise access or for fill material.
	Contaminated	<ul style="list-style-type: none">/ Contaminated materials identified on site will be managed on site and disposed of off-site by a licensed contractor./ Contaminated soil is to be loaded directly into trucks and removed to an approved landfill site./ Contaminated materials will be managed and disposed of by a licensed contractor.
	Stockpiles	<ul style="list-style-type: none">/ Stockpiles will be in areas approved by the Site Manager./ Stockpiles will be managed to prevent pollution.

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- Sewer
- / All waste from ablution blocks and lunch sheds will be connected to the main sewer system by a licensed contractor.
 - / All waste from portable ablution blocks will be disposed of by a licensed liquid waste transporter to an approved facility.

WASTE CONTRACTOR/S During the construction of the project, removal and recycling of waste will be provided by BINGO.

Waste removed from site will be transported to an approved waste or recycling facility. All waste removed from site will be tracked through waste documents and/or monthly waste reports provided by the contractor.

WASTE MATERIAL

Concrete and
masonry
product

- / Concrete waste generated during demolition will be recycled
- / Concrete wash out will be used for access paths and road where possible. All other concrete waste will be placed in designated skips on site.
- / Excess concrete will be returned to the supplier.
- / Masonry recovered during demolition will be recycled where possible by the demolition contractor.
- / Masonry off cuts from construction may be reused on site for temporary access ways or placed in designated skip bins for recycling.

General waste

- / All general waste generated on site including food scraps will be placed in the bins provided in the amenities buildings.
- / Such waste will be removed from site by an approved contractor

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Excavated material	<ul style="list-style-type: none">/ Normal excavation methods will be used by the approved contractor./ Work areas will have identification barriers to prevent unauthorised access. All personnel will be required to follow the safety management plan while conducting excavations works./ Any contaminated soil to be removed will be tested prior to removal directly to waiting trucks. Contaminated material will be transported by the most direct route to an approved treatment/landfill facility./ The transport of all materials from the site will conform to the requirements of the EPA, Local Councils, RTA and other relevant authorities./ Where contaminated material is to be stockpiled the area is to be designated by the approved consultant or site manager. Protective barriers are to be in place to warn and protect workers on site./ Trucks removing material from site will have the loads securely covered to prevent spillage. Drivers are required to ensure that no materials are tracked onto the road. All traffic leaving the site is to use the designated wash down bay to remove mud, dust and other debris./ Materials to be removed from site may include:<ul style="list-style-type: none">- General waste including organic material, concrete and other hard waste- Imported fill material- Topsoil- Landfill waste- General fill- Unsuitable material- Contaminated material
Green waste	<ul style="list-style-type: none">/ Green waste generated as a result of tree felling, mulching or top soil removal will be:/ Removed from site and transported to an accredited waste facility.
Glass, paper, plastic and cardboard	<ul style="list-style-type: none">/ During the construction of the project, such products will be placed in designated bins for recycling.
Plasterboard	<ul style="list-style-type: none">/ During the construction of the project, such products will be placed in designated bins for recycling.
Polystyrene	<ul style="list-style-type: none">/ During the construction of the project, such products will be placed in designated bins for recycling.

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Steel and
aluminium

- / Where practicable, such products recovered during the demolition process will be recycled. During the construction of the project, such products will be placed in designated bins for recycling.

Timber

- / Timber recovered during the demolition process will be assessed on site by the demolition contractor and recycled where possible
- / Timber will be used and cut in the most economical fashion where ever possible.
- / Timbers for formwork, temporary structures and handrails will be reused and maintained at full lengths wherever possible.
- / Rainforest timbers and Australian high conservation timbers will not be used on this project.

Waste Generation Estimate (As referenced in the forest high school Construction and Demolition WMP – Forensic Environmental 29/09/23)

The quantity of waste materials to be generated onsite are estimates based on the current documentation available. The systems that will be put in place need to incorporate flexibility to allow for variation in the total quantities generated.

Table 2 - Estimated composition of construction waste by volume

Material	M ³
Mixed Residual Waste	250
Concrete	20
Timber	10
Plasterboard	8
Metal	5
Carpet	1
Total	294

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ANNEXURE A – BINGO WASTE MANAGEMENT PLAN

CONFIDENTIAL
Waste Management & Recycling Plan (NSW)

BINGO Industries offers a complete, comprehensive solution to the management and recycling of wastes to assure compliance with clients' waste management policy. BINGO Recycling Centre's combine bin storage, waste collection, waste recycling and waste transfer to service the building and construction industry and domestic waste management needs in New South Wales. Wastes collected by BINGO Industries are taken directly to one of these facilities where approximately 90% of wastes are converted to recovered resources.

BINGO Recycling Centre Alexandria EPL No. 4679
BINGO Recycling Centre Artarmon EPL No. 20763
BINGO Recycling Centre Auburn EPL No. 10935
BINGO Recycling Ecology Park Eastern Creek EPL No. 20121
BINGO Recycling Centre Greenacre EPL No. 20847
BINGO Recycling Centre Kembla Grange EPL No. 20601
BINGO Recycling Centre Mortdale EPL No. 20622
BINGO Recycling Centre Patons Lane EPL No. 21259
BINGO Recycling Centre Revesby EPL No. 20607
BINGO Recycling Centre Tomago EPL No. 20585

As can be expected waste materials inwards vary considerably and are delivered to the Recycling Centres in tipping and non-tipping vehicles or in skip bins. Of the wastes inwards approximately 90% is recovered and recycled as materials outwards and the balance 10% to landfill. Waste materials inwards are processed to achieve the maximum recovery of resources and the minimum of un-recoverable material for disposal.

Typical Composition of BINGO's Wastes Inwards

Wastes Inwards	Percentage (approx.)
Heavy Recyclable Materials	45%
Light Recyclable Materials	35%
Metals	10%
Non-Recyclable Materials	10%
Total	100%

Heavy Recyclable Materials:

- Soil
- Dirt
- Sand
- Rubble
- Brick
- Concrete
- Tiles
- Stone
- Asphalt

Light Recyclable Materials:

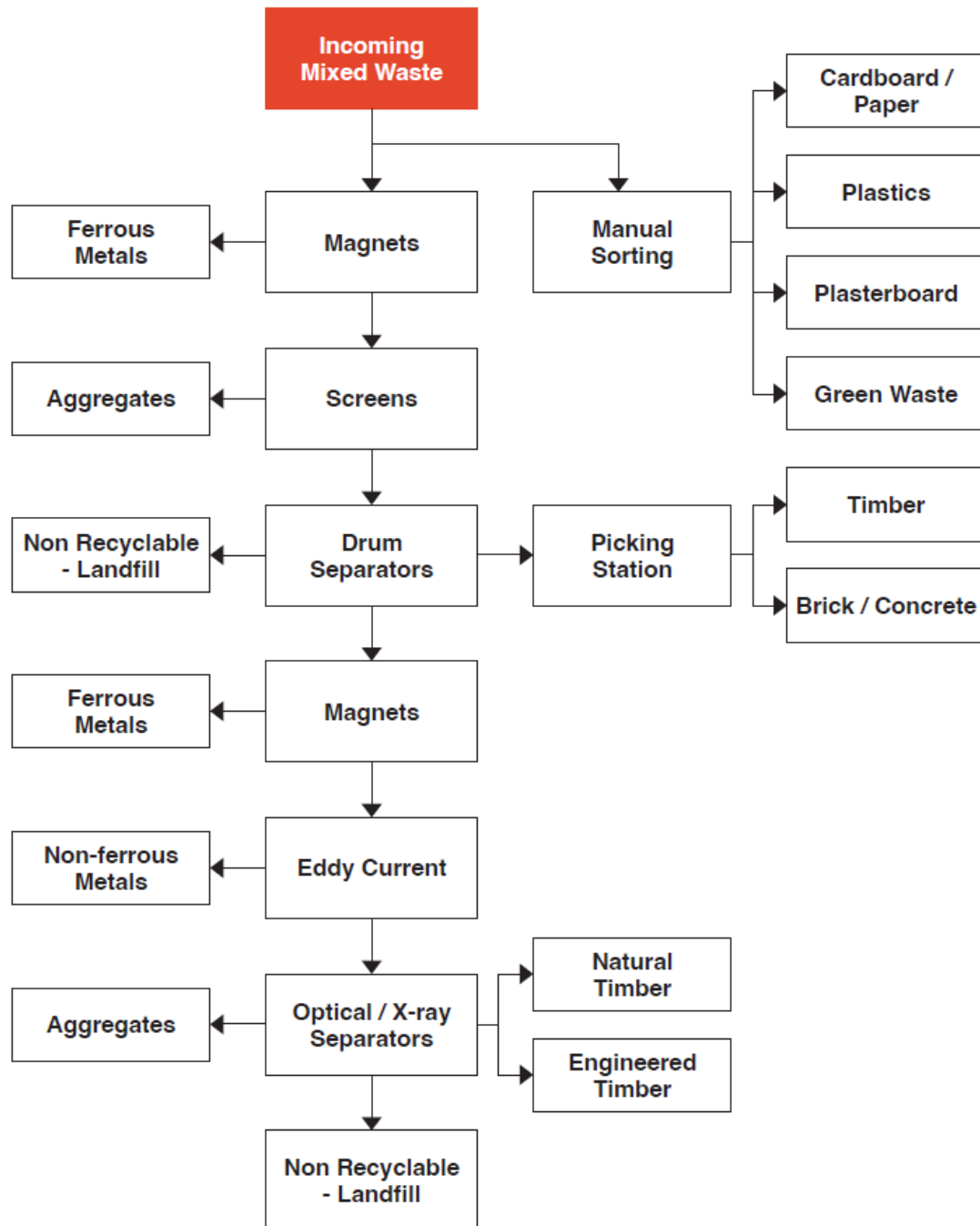
- Timber
- Green Waste
- Cardboard/ Paper
- Plastic
- Plasterboard

Metals:

- Ferrous (steel, black iron)
- Non-Ferrous (copper, wire, aluminium, stainless)

At the Resource Recovery Facility an effective waste processing procedure is applied. See Materials Flow Diagram (below). Wastes inwards unloaded onto the sorting area where the waste is raked with a hydraulic excavator to expose the contents and where recyclable materials are hand and machine sorted.

BINGO Recycling Centre Materials Flow Diagram



In summary, BINGO Industries take all their mixed waste skip bins directly to EPA Licensed Recycling Centres. From there the waste is sorted and separated into the following material classes for processing and recycling.

Type of Material	Where Processed/ Recycled	How Processed/ Recycled
Heavy Recyclable Materials (soil, dirt, sand, rubble, concrete, brick, tiles, asphalt, stone)	<ul style="list-style-type: none"> BINGO Recycling Centres 	Re-processed into recycled products (such as aggregates and roadbase) by crushing and screening.
Timber / Green Waste	<ul style="list-style-type: none"> Clean & Green Organics BINGO Recycling Ecology Park 	Re-processed into woodchip and mulch by shredding.
Metal / Steel	<ul style="list-style-type: none"> Sell & Parker CMI SIMS Sydney Copper Scraps Infrabuild 	Re-processed into new metal and steel products by shearing, baling and re-smelting.
Brick / Concrete	<ul style="list-style-type: none"> BINGO Recycling Ecology Park 	Re-processed into recycled products (such as aggregates and roadbase) by crushing and screening.
Cardboard / Paper / Plastic	<ul style="list-style-type: none"> Cleanaway 	Re-processed into new cardboard, paper and plastic products by breaking down the material into a form for re-use.
Plasterboard	<ul style="list-style-type: none"> ReGyp 	Re-processed into gypsum products by shredding and screening.
General Waste	<ul style="list-style-type: none"> Eastern Creek Landfill 	n/a

- **BINGO Recycling Centres**
76-82 Burrows Road, Alexandria NSW 2015
10 Mclachlan Ave, Artarmon NSW 2064
3-5 Duck Street, Auburn NSW 2144
Honeycomb Drive, Eastern Creek NSW 2766
35 Wentworth St, Greenacre NSW 2190
50 Wyllie Road, Kembla Grange NSW 2526
20 Hearne Street, Mortdale NSW 2223
Patons Lane, Orchard Hills NSW 2748
37-51 Violet Street, Revesby NSW 2212
29 Laverick Avenue, Tomago NSW 2322
- **Clean & Green Organics**
769 The Northern Rd, Bringelly NSW 2566
- **Sell & Parker**
45 Tattersall Road, Blacktown NSW 2148
- **CMI**
38 York Road, Ingleburn NSW 2565
- **SIMS**
43 Ashford Ave, Milperra NSW 2214
76 Christie St, St Marys NSW 2760
- **Sydney Copper Scraps**
130 Adderley St, Auburn NSW 2760
- **Infrabuild**
107 Sparke St, Hexam NSW 2322
79 Stephen Rd, Botany NSW 2019
- **Cleanaway**
44 Claremont Ave, Greenacre NSW 2190
- **ReGyp**
30 Nangar St, Cowra NSW 2794
- **Eastern Creek Landfill**
Honeycomb Drive, Eastern Creek NSW 2766