

Schedule C5 Site Waste Management Plan

This declaration is to be used in conjunction with BAM Smart – the web-based sustainability monitoring and reporting tool / BAM Site app. (delete as appropriate)

Project reference	BAA2210
Project title	Victoria North Enabling works
Client	Manchester City Council
Principal contractor	BAM Nuttall Ltd
Site waste coordinator / Environment engineer	TBC
Contract value	TBC
Address/location	
Project description	Enabling works for Victoria North Project consisting of demolition of Cream line dairy, tree clearance works and construction of haul road in the area.
Document prepared by	N Peters

Declaration: We the client and principal contractor confirm that all reasonable steps will be taken to ensure that: a) all waste from the site is dealt with in accordance with the duty of care in section 34 of the Environmental Protection Act b) materials will be handled efficiently and waste managed appropriately	
Client:	Signed:
Principal contractor:	Signed:
Key subcontractor(s):	Signed:

This plan is reviewed at least every three months by the site waste coordinator and updated as necessary to ensure that waste management practices are in accordance with this plan.

Reviewed by	Date	Rev no.	Revision details (where applicable)

Introduction

This site waste management plan identifies and monitors:

- reuse of materials on the project e.g. cut and fill, site won materials
- waste minimisation implemented on the project
- waste management options for waste generated during the works including waste generated by subcontractors
- any cost savings achieved through waste minimisation

Materials identified within this SWMP are not necessarily statutory waste as they do not fall within the legal definition of waste ie 'any substance or object which the holder discards intends to discard or is required to discard.' There is no intention to discard materials such as:

- site won excavated materials
- aggregates crushed in accordance with the WRAP Quality Protocol (on or off site)
- pre-planned use of materials

All materials whether they are imported, reused 'as is' on site, recycled (on or off site) or sent off site for disposal are identified within the plan.

(See Appendix 1 for roles and responsibilities.)

Materials resource efficiency

The following waste reduction and reuse measures have been included in the design and/or specification for this project:

(To be completed with input from the designer – delete or add as appropriate)

<i>Design specifications</i>	
<i>Choice of materials</i>	
<i>Methods of construction</i>	
<i>Pre-fabrication off site</i>	N/A

Forecast of the types and quantities of waste

It is estimated that this site will produce the following types and quantities of waste:

Source and type of waste	EWC Code	Estimated quantity of waste (tonnes)	Proposed waste management action (reuse, recycle, etc)
Excavation waste			
Hazardous excavated material	17 05 03*	0	0
Non-hazardous soil and stones	17 05 04	3420	3420
Inert soil and stones	17 05 04	0	0
Construction (skip) waste			
Concrete	17 01 01	0	0
Mixed hardcore	17 01 07	0	0
Timber	17 02 01	5	5
Glass	17 02 02	0	0
Plastic	17 02 03	3	3
Mixed metals	17 04 07	0	0
Other mixed construction waste	17 09 04	0	0
Hazardous construction waste	Various	0	0
Mixed municipal waste	20 03 01	40	40
Demolition waste			
Concrete	17 01 01	684	684
Bricks	17 01 02	40	40
Mixed hardcore	17 01 07	250	250
Timber	17 02 01	0	0
Glass	17 02 02	1	1
Plastic	17 02 03	0	0
Mixed metals	17 04 07	10	10
Other mixed demolition waste	17 09 04	20	20
	Totals	4473	4473
		Difference	0

Delete / add waste streams as appropriate by double clicking on this table.

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Management of waste

The production of waste material on this site during the construction phase is avoided wherever possible by following the 'reduce, reuse, recycle, recover' measures outlined below. Only where these options have been exhausted is waste sent for disposal.

Reduction and reuse measures

The following measures will be employed to reduce and reuse waste on this site:

(Confirm, delete and/or insert new site specific measures to be employed at this site in the table below)

General	
Reduction measures	Reuse measures
Designed elements to use standard module sizes of available materials	Rainwater from accommodation roofs to be harvested for use in dust suppression measures
Accurate measurement, and minimal wastage will be allowed when ordering materials	
Materials are to be delivered just in time for the work package	
Materials are to be stored and transported correctly so as to avoid damage	
Materials are to be kept off the ground by the use of pallets or timber bites	
The following components are to be prefabricated: <i>(Insert any relevant materials)</i>	
All operatives are to receive training on the agreed reduction measures	
<i>(any other measures)</i>	
Concrete and hardcore	
Reduction measures	Reuse measures
Suspended GF slab to be designed to eliminate the requirement for extra fill	900 tonnes of hardcore from demolition is to be crushed and reused as aggregate
Teram to be used under temporary roads to reduce wastage through settlement	Remaining hardcore from demolition to be crushed and used as fill to excavations
Concrete orders to be as accurate as possible to reduce possibility of waste	Excess concrete from pours is to be used to create temporary paths around the site
<i>(any other measures)</i>	<i>(any other measures)</i>

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Excavated material (soil & stones)	
Reduction measures	Reuse measures
- Formation level to be raised to reduce excavation waste - Soil stabilisation to be used to minimise reduced level dig - Displacement piling to be used in lieu of CFA to reduce spoil - Mini piles to be used in lieu of pad foundations - Reinforced pad foundation to be used, backfilled with excavated material, in lieu of mass pads - Permanent formwork to be used to pile caps and ground beams to eliminate excavated working space - Drainage levels to be raised, and back-dropped into manholes, to reduce excavation depths - Trenches to be sheeted rather than battered to reduce excavated material (any other measures)	- A cut and fill exercise has been carried out to minimise waste off site - Arisings from excavations to be used as follows: 2000 tonnes to be used as backfill to excavations 850 tonnes to be used within landscape bunds (any other measures)
Timber	
Reduction measures	Reuse measures
- Reusable plastic pallets to be used - System shuttering to be used wherever practicable - Reusable plastic/metal hoardings to be used (any other measures)	- Reusable shuttering systems to be employed wherever practicable - Off-cuts of plywood to be saved and used to cover holes, and as protection to fragile materials - Designated area for waste timber to be set up for free reuse by others (any other measures)
Metals	
Reduction measures	Reuse measures
(any other measures)	- Off-cuts from long pipe work runs are to be stored for reuse in small runs (any other measures)

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Recycle and recovery measures

The following waste streams are to be segregated for recycling/ recovery off site:

Waste stream	EWC code	Storage option	Management option
• Paper and cardboard	20 01 01	labelled bins	Recycling within works
• Excavation waste	17 05 04		
• Packaging	15 01 06	labelled bins	
• Plastic	20 01 39	labelled bins	
• Timber	17 02 01	labelled bins	
• Mixed Metals	17 04 07	labelled bins	
• Mixed waste	17 09 04	labelled bins	
• (any other waste types)			

Project close-out review

This section of the plan is completed prior to the project close-out review, and discussed as part of the review meeting. The estimated quantities are drawn from the table in section 2, and reconciled against the actual quantities removed from site as detailed in BAM SMarT / BAM Site app (delete as appropriate).

Comparison of estimated and actual quantities

Insert actual waste quantities from BAM SMarT / BAM Site app (delete as appropriate).

Source and type of waste	EW Code	Estimated quantity of waste (tonnes)	Actual quantity of waste (tonnes)
Excavation waste			
Hazardous excavated material	17 05 03*		
Non-hazardous soil and stones	17 05 04		
Inert soil and stones	17 05 04		
Construction (skip) waste			
Concrete	17 01 01		
Mixed hardcore	17 01 07		
Timber	17 02 01		
Glass	17 02 02		
Plastic	17 02 03		
Mixed metals	17 04 07		
Other mixed construction waste	17 09 04		
Hazardous construction waste	Various		
Mixed municipal waste	20 03 01		
Demolition waste			
Concrete	17 01 01		
Bricks	17 01 02		
Mixed hardcore	17 01 07		
Timber	17 02 01		
Glass	17 02 02		
Plastic	17 02 03		
Mixed metals	17 04 07		
Other mixed demolition waste	17 09 04		
	Totals	0	0
		Difference	0

Delete / add waste streams as appropriate by double clicking on this table.

Explanation of any deviation from the original plan