



Site Waste Management Plan

CLIENT:
Mount Anvil
140 Aldersgate Street
London
EC1A 4HY



Project Name	020 8960 4646Riverside Studios, Hammersmith	Project No	10314
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1.0. Revision Status & Circulation

1.1. Revision Record

Prepared By Print Name	Dean Wingfield	Signature		Revision	3
Date	Details of Amendment				
10/8/15	Additional carrier licenses				
4/11/15	Reviewing information				
5/2/16	Reviewed with no change				
5/5/16	Additional member to the team.				

Reviewed by (name)	Title	Revision	Signature
Colin Starken	Project Manager	3	
Dean Wingfield	Senior site Manager	3	
Tom Shield	Health & Safety Coach	3	
John Gore	Senior site manager	3	
John Williams	Assistant site manger	3	

This document shall be reviewed every 3 months as a minimum or when changes affect the details of this Plan and where necessary updated as detailed below.



2.0. Overview

The construction and demolition industry account for approximately 32% of the total waste stream in England and Wales. This amounted to between 108 and 124 million tonnes of waste in 2003, and this is continuing to rise. It is estimated that 91 million tonnes of this waste was inert an inherently reusable and recyclable material. A further 20 million tonnes represented the mixed an un-segregated waste stream and 13 million tonnes arose directly from construction wastage.

The construction and demolition industry is reasonably effective in the recycling and reusing the inert fractions either by reuse within an existing development or by moving the waste to another project. Other source segregated wastes such as timber and plasterboard have recently started to make further changes in the recycling profile of the wastes generated.

Further advances in the efficiency of the waste industries Material Recycling Facilities have also contributed to the increases in the amount of mixed waste that is now diverted away from landfill.

The Site Waste Management Plan provides a means of ensuring that all aspects of waste management good practice are considered and used appropriately. The contents of the plan also contribute to the legislative requirements of section 34 (Duty of Care) of the Environmental Protection Act and the Duty of Care Regulations.

The Site Waste Management Plans Regulations 2008 will apply to all projects with a value of 300k or more, with additional updating requirements for projects with a value of 500k or more. The regulations place the initial responsibility for the production of the plan with the client. The client must produce the plan before the project is started. If a project is started without a site waste management plan, then the client and the principle contractor are guilty of an offence under these regulations. The regulations also lay out what the plan must include.

The plan must identify:

- The client
- The principle contractor
- The person who drafted the plan
- The location of the site
- The estimated cost of the project

It must record any decision made in order to minimise the quantity of waste produced on site before the plan was drafted

It must:

- Describe each waste expected to be produced
- Estimate the quantity of each type of waste
- Identify the waste management action for each type of waste including re-using, recycling, recovery of disposal.

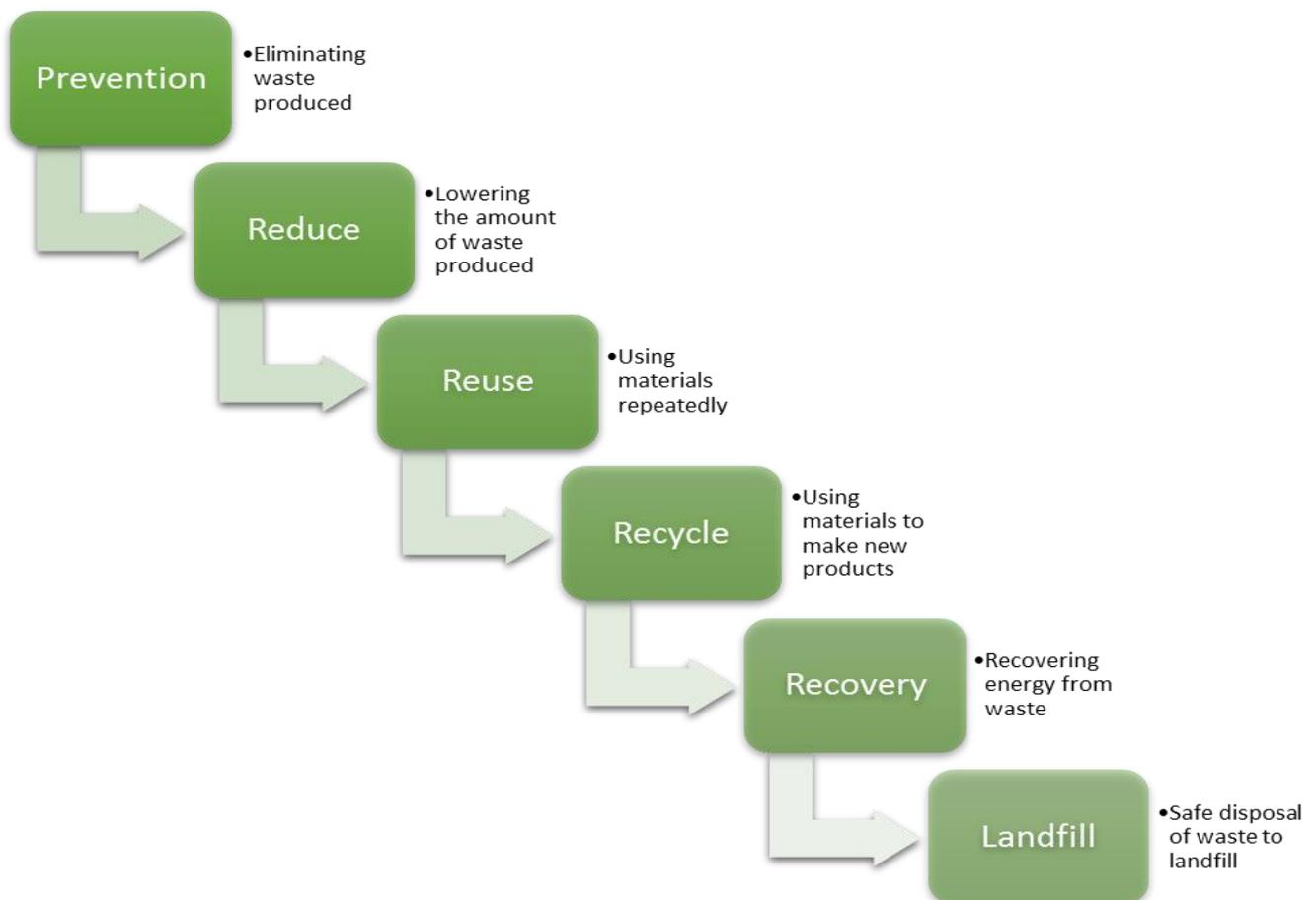
It must also contain a declaration that both the client and the principle contractor will comply with the requirements of Duty of Care that the materials will be handled efficiently and waste managed appropriately



2.1. Waste Hierarchy

Mount Anvil Ltd sites will follow the 'Waste Hierarchy' which ranks waste management option according to what is best for the environment.

It gives top priority to preventing waste in the first place. Where waste is produced, the hierarchy gives priority to preparing waste for reduction, then reuse, then recycling, then recovery, and lastly landfill (the least desired option).



Mount Anvil Ltd will apply elements of the waste hierarchy to prevent and reduce the amount of waste that reaches landfill sites.

Mount Anvil Ltd and subcontractors must declare a Duty of Care on Waste Transfer Notes and Hazardous Waste Consignment Notes confirming both parties have complied with this duty.

2.1.1. Hazardous Waste Hierarchy

Hazardous waste must be stored and segregated from all other waste on site to avoid cross contamination.



When dealing with hazardous waste, an additional step must be taken to ensure Duty of Care is complied with. Products or components that have operated with hazardous materials must be cleaned or repaired before being reused.

2.2. Project Stage & Project Planning Actions

Action Point	If yes, what actions have been implemented? If no reason, why the procurement cannot be implemented
Project Stage	
Has careful evaluation of materials been made so that over-ordering and site wastage is reduced	For materials to be purchased by Mount Anvil, this is under review CB, RH, Ian Mansfield - Buyer. Reducing waste is a subject of discussion with s/c > key aspects - cutting to size - off site fabrication / manufacture.
Has full consideration been given to the use of secondary and recycled materials	Recycled crushed conc from demolition used in piling mat.
Is unwanted packaging to be returned to the supplier for recycling or re-use	Yes in principal > also we have a collection for card (and paper) in place with "Paper Round" > to recycling. Pallets will be collected / returned to suppliers
Can materials be returned to supplier or used on another site	Close control will be kept of materials and a store keeping system will be employed > yes - this is a possibility
Project Planning	
Has a project programme been developed to include likely waste arising? (How much, when and what types)	Yes
Has an area been designated for waste management, including segregation of waste?	Yes
Can targets be set for different types of waste likely to arise from the project	Yes
Has the disposal of liquid wastes such as welfare area waste (hand washing, toilet waste) been considered	Yes
Have measures been put in place to deal with expected (and unexpected) hazardous waste	Yes
Has an agreement been sought from the sewage company for effluent discharge	By tanker at present > to Becton Sewage Treatment Works > under review
Have the opportunities been considered for reuse of materials on site i.e. crushing of concrete	Yes - looking for further opportunity
Have you considered what are the most appropriate sites for disposal of residual waste from the project	Yes > Powerday - our main partner are in NW10 - 6km to the north of site.
Are there any opportunities for reducing disposal costs from waste materials, which may have commercial value	Recycling of crushed concrete - reuse of timber and metals from demolition.



2.3. Site Operations & Post Completions Actions

Action Point	If yes, what actions have been implemented? If no reason, why the procurement cannot be implemented
Site Operations	
Has the responsibility for Waste Management and Compliance been assigned to a named individual	Yes
Are containers / skips clearly labelled to avoid confusion	Yes they will be - not applicable at present - one general skip in use.
Are Duty of Care procedures complied with, including the provision of transfer notes and authorisation checks of registered exempt sites and licensed waste management facilities	Yes
Are any checks made that excavation waste is received at the intended site	They will be > MPB are the appointed groundworker > excavation is planned to commence in July 2015
Is implementation of agreed waste management procedures monitored	Yes
Are reports regularly produced regarding waste quantities and treatment / disposal routes, and on costs occurred	They will be > by Powerday.
Records of quantities of waste	Yes
During site operations, are barriers to good waste management practice considered and noted for incorporation into the post completion review	Yes - they will be.
Post Completion	
Has a final report for the use of recycled and secondary materials, waste reduction, segregation, recovery and disposal, with costs and savings identified, been completed, incorporated benchmark measures	
Have any key waste management issues been considered for action at future projects	



2.4. Pre-start Estimate

Site Waste Management Plan Pre Start Up Estimate			
Project	Riverside Studios, Hammersmith	Estimated Contract Value	£70,000,000
Address	Crisp Road, Hammersmith, London W6		
Client	Mount Anvil	Telephone	020 7776 1800
Principle Contractor	Mount Anvil	Telephone	020 7776 1800
Contracts/ Project Manager	Colin Starken	Telephone	07710854915
Site Waste Manager / Coordinator	Dean Wingfield	Telephone	07568100537
Start Date	Demolition (ADL) October 2014 Construction - 7th April 2015	End date	31st October 2017
Total Gross Development Area	0.7ha		
Completed Project use	3 production studios, 1 cinema (to shell+core) and 165 new apartments.		
Waste Storage Area identified	Yes	Hazardous Waste Site registration	OOW738
Specialist Waste Carrier required	Yes, on occasion	Access for waste collection	From Crisp Road or Queen Caroline Street entrance gates.
Additional Comments	None		

	Name	Company	Company Type	Contact Details
Who is responsible for drafting the SWMP	C. Starken	MA	PC	07710854915
Who is responsible for implementing the SWMP	J. Gore	MA	PC	07715851942
Who is the waste champion	S. Stuart	MA	PC	07803200301
Who is in charge of the project	C. Starken	MA	PC	07710854915

This plan is to be reviewed in line with the site Environmental Management Plan on a quarterly basis by the Project Environmental Coordinator and updated where necessary to ensure that the



work is progressing in accordance with the plan. Reviews must also be conducted as a result of significant changes to the project.

2.5. Identified Waste Generated

Yes or No to appropriate boxes that apply to this project

List of Waste identified on site and estimated to be generated during this project				
Waste Type	Produced	Re-use on site	Recycle	Dispose
Aluminium	Y		Y	
Asbestos (bonded)*	Y			Y
Asbestos (fibrous/insulation)*	Y			Y
Bituminous mixtures	Y		Y	
Hardcore - rubble, concrete, bricks, tiles and ceramics mixed	Y		Y	
Canteen / Office / General / adhoc waste	Y		Y	
Cable	Y		Y	
Concrete	Y		Y	
Carpets, curtains and other geo-textiles	Y		Y	
Copper	Y		Y	
Discarded electrical equipment (no dangerous substances)	Y		Y	
Discarded electrical equipment (with dangerous substances)*	Y		Y	
Demolition and construction waste - general	Y		Y	
Demolition wastes containing dangerous substances*	Y			Y
Excavated soil (non contaminated)	Y		Y	
Excavated soil (contaminated)*	Y			Y
Electrical and electronic equipment	Y		Y	
Furniture	Y		Y	
Fluorescent tubes*	Y		Y	
Glass	Y		Y	
Hazardous (specify) * denotes waste is hazardous	Y			Y
Insulation	Y		Y	
Liquids	Y		Y	
Metal (mixed)	Y		Y	
Oils	Y		Y	
Packaging (mixed)	Y		Y	
Packaging – cardboard	Y		Y	
Packaging – plastic	Y		Y	
Packaging – contaminated / not empty*	Y		Y	
Plasterboard	Y		Y	
Plastic	Y		Y	
Paper	Y		Y	
Refrigerators*	N			
Tiles and ceramic	Y		Y	
Tiles, ceramics etc. containing dangerous substances*	N			
Wood	Y		Y	



2.6. Site Operations Waste Streams

As part of Mount anvil's Site Waste Management Plan the waste will be segregated into the following streams

Waste Stream	EWC Code	Sustainability Information
Active	17, 09, 04	<i>Untreated general waste streams are taken direct to licensed material reclamation facilities / transfer stations operated by approved service providers for further segregation and processing into separate streams for re-use, recycling and recovery. The key waste streams for segregation are inert, timber, paper and cardboard, metal and plasterboard</i>
Inert	17, 01, 07	<i>Inert materials removed from site are screened and processed through Material Reclamation Facilities / Transfer Stations into aggregates and soils. Recycled and Secondary Aggregates (RSA) can be used in a range of construction materials, including use as engineering / cover materials at landfill sites and re-used back into other construction projects as sub base materials, with soils graded and utilised in ground remediation projects or as top soil.</i>
Metal	17, 04, 07	<i>Quantities of ferrous and non ferrous metals are separately segregated at licensed waste transfer stations before being transported to metal recycling facilities / processors for recovery and subsequent consumption by secondary smelter, refiners, ingot makers/ fabricators, foundries and other industries.</i>
Timber	17, 02, 01	<i>After processing at Material Reclamation Facilities / Transfer Stations, wood waste streams are transported to a network of wood processors and recyclers throughout the UK, where it is either re-used, chipped for recycling into a variety of products, including landscaping/agriculture products, equestrian/animal bedding, panel board products, and chipped/palletised biomass for fuel</i>
Compactable	20, 03, 01	<i>Compactable waste streams are taken direct to licensed Material Reclamation Facilities / Transfer Stations for further segregation and processing into separate streams for reuse, recycling and recovery. Waste streams are only sent to landfill where recycling/recovery are not possible following treatment</i>
Plasterboard	17, 08, 02	<i>Waste plasterboard is removed from site to a number of re-processors / recyclers for processing into a variety of end uses markets, including manufacture of new boards, cement manufacture and soil conditioners.</i>
Hazardous		
Liquid Waste		
Other		



3.0. Introduction, Updating the Plan & Duties

The Client and Principal Contractor (Mount Anvil) will take all reasonable steps to ensure that all waste from this site is dealt with in accordance with Section 34 of the Environmental Protection Act 1990 (Waste Duty of Care), and the Environmental Protection (Duty of Care) Regulations 2003, and that all materials will be handled efficiently and waste managed appropriately.

This plan is to be reviewed and updated on a monthly basis. A review of the project will also be carried out on completion to compare the estimated quantities of each waste type against actual quantities and estimate any cost savings.

3.1. Updating the Plan

Once the project starts then the regulations place an obligation on the principle contractor to update the plan.

If the project has a value of less than 500k then they must record details of the person removing the wastes, the types of waste removed and the site the waste is being taken to. They must also, within 3 months of the completion of the project, add confirmation that wastes have been monitored and the plan updated to reflect the changes along with an explanation of any deviation from the plan.

If the project is worth more than 500k, then these requirements are increased to include further, more clearly defined, Duty of Care information. The principle contractor must also:

- 1, review the plan
- 2, record quantities and types of waste produced
- 3, record the types and quantities of waste that have been:
 - a) Reused (on or off site)
 - b) Recycled (on or off site)
 - c) Sent of other forms of recovery (on or off site)
 - d) Sent to landfill
 - e) Otherwise disposed of
- 4, Update the plan to reflect the progress of the project

Within three months of the work being completed the principle contractor must add to the plan;

- Confirmation that the plan has been monitored and updated in accordance with the regulation
- A comparison of estimated quantities of each type of waste generated against the actual quantities of each type of waste
- An explanation of any deviation from the plan
- An estimate of the cost savings that have been achieved by completing and implementing the plan (an increased cost will effectively be a negative saving)

The principle contractor must ensure that the plan is kept on site, and every sub contractor knows where it is kept. It must be available to every contractor carrying out any work described in the plan.

The principle contractor must retain the plan for two years following the completion of the project.



3.2. Additional Duties

In addition to the requirements laid out in the regulations the Client and Principle Contractor must, so far as reasonably practicable, comply with a number of additional duties laid out in the Schedule to the regulations.

These include

- Ensuring co-operation between contractors during the construction phase
- Induction, information and training for every worker, with respect to the site waste management plan
- Ensuring that waste produced is re-used, recycled or recovered

Failure to comply with the schedule is also an offence.

3.3. Enforcement Duties and Penalties

The Environment Agency and Local Government or council enforcement officers will enforce these regulations.

A person found guilty of an offence is liable, on summary of conviction to a fine not exceeding £50k or on indictment to an unlimited fine. Where a corporate body is found guilty of an offence, individual liability also applies to directors, managers and other persons acting in a similar capacity.

The enforcement body may also issue a £300 fixed penalty notice if a person fails to produce a site waste management plan or any other record when required to do so by an Enforcement Officer.



4.0. Project Information

4.1. Project Description

The Project comprises of the following:

- Add details, **3 production studios and one cinema to shell and core plus 165 new apartments and ancillary facilities**
- Add details, **Single basement over the site area with double basement in south east quarter.**
- Add details, **Creation of a new section of river walk beside the River Thames.**

4.2. Total Gross Development Area

Total Gross Development Area:-

- **(add details) 29,000 sq mtr**

4.3. Development Functions

The development will contain the following functions:

Function	Details
Private apartment details	165 apartments
Concierge details	Concierge in Core A
Private entrance details inc. mail boxes	7 cores each with its own entrance area and core mail boxes
Affordable apartment details including tenure	none
Affordable entrance details inc. mail boxes	n/a
Cycle storage details	216 cycle spaces at basement level 1 - in 4 locations
Refuse area details	Bin stores are at 6 locations in the basement. Bins are moved by the development up to street level for collection using a platform lift
Courtyard details	The development features a large central courtyard at stepped levels featuring a link bridge and an atrium roof over the Riverside Studios entrance foyer area.
Retail area details	
Ancillary facilities inc. Spa / residents lounge details	
Basement areas inc. parking, plant and services details	



Client Waste Reduction and Reuse Measures

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

- (add details)
- (add details)
- Where ever possible re-using materials on site
- Initiatives planned to re-use and recycle parts of soil acquired by the excavation works

5.0. Estimate of Types & Quantities of Waste

5.1. Demolition Waste

From historical data, it is estimated that this site will produce the following types and quantities of waste.

Demolition Waste	
Waste Type	Volume Tonne (add estimated value)
Aluminium	1
Asbestos (bonded)*	120
Asbestos (fibrous/insulation)*	6.3
Asphalt & Tar	1
Brick / Rubble / Concrete	5840
Canteen / Office / Adhoc Mixed Waste	10
Cable	10
Concrete	2000
Carpets, curtains and other geo-textiles	20
Copper	5
Discarded electrical equipment (no dangerous substances)	5
Discarded electrical equipment (with dangerous substances)*	0
Demolition and construction wastes – Mixed Waste	61
Demolition wastes containing dangerous substances*	0
Excavated soil (non contaminated)	0
Excavated soil (contaminated)*	0
Electrical and electronic equipment	0
Furniture	2
Fluorescent tubes*	0
Glass	1
Hazardous (specify) * denotes waste is hazardous	36 (pigeon foul & eff)
Insulation	20
Liquids	0
Metal (mixed)	355
Oils	0
Packaging (mixed)	0
Packaging – cardboard	0
Packaging – plastic	0
Packaging – contaminated / not empty*	0
Plasterboard	0



Plastic	0
Paper	0
Refrigerators*	0
Tiles and ceramic	0
Tiles, ceramics etc. containing dangerous substances*	0
Wood	200

5.2. Excavation Waste

Excavation Waste	
Waste Type	Volume Tonne (add estimated value)
Aluminium	0
Asbestos (bonded)*	0
Asbestos (fibrous/insulation)*	0
Asphalt & Tar	10
Brick / Rubble / Concrete	200
Canteen / Office / Adhoc Mixed Waste	2
Cable	0
Concrete	200
Carpets, curtains and other geo-textiles	0
Copper	0
Discarded electrical equipment (no dangerous substances)	0
Discarded electrical equipment (with dangerous substances)*	0
Demolition and construction wastes – Mixed Waste	25
Demolition wastes containing dangerous substances*	0
Excavated soil (non contaminated)	40000
Excavated soil (contaminated)*	5
Electrical and electronic equipment	0
Furniture	0
Fluorescent tubes*	0
Glass	0
Hazardous (specify) * denotes waste is hazardous	0
Insulation	0
Liquids	0
Metal (mixed)	0
Oils	0
Packaging (mixed)	0
Packaging – cardboard	0
Packaging – plastic	0
Packaging – contaminated / not empty*	0
Plasterboard	0
Plastic	0
Paper	0
Refrigerators*	0
Tiles and ceramic	0
Tiles, ceramics etc. containing dangerous substances*	0



Wood	

5.3. Construction Waste

Construction Waste	
Waste Type	Volume Tonne
Aluminium	2
Asbestos (bonded)*	0
Asbestos (fibrous/insulation)*	0
Asphalt & Tar	1
Brick / Rubble / Concrete	360
Canteen / Office / Adhoc Mixed Waste	120
Cable	5
Concrete	240
Carpets, curtains and other geo-textiles	1
Copper	1
Discarded electrical equipment (no dangerous substances)	5
Discarded electrical equipment (with dangerous substances)*	5
Demolition and construction wastes – Mixed Waste	200
Demolition wastes containing dangerous substances*	0
Excavated soil (non contaminated)	110
Excavated soil (contaminated)*	10
Electrical and electronic equipment	5
Furniture	1
Fluorescent tubes*	0.5
Glass	1
Hazardous (specify) * denotes waste is hazardous	1
Insulation	5
Liquids	1
Metal (mixed)	357
Oils	0.5
Packaging (mixed)	25
Packaging – cardboard	50
Packaging – plastic	50
Packaging – contaminated / not empty*	5
Plasterboard	240
Plastic	120
Paper	0
Refrigerators*	1
Tiles and ceramic	0
Tiles, ceramics etc. containing dangerous substances*	480



Wood	

5.4. Guide to European Waste Codes

Any further information can be found at

<https://www.gov.uk/environmental-management/waste>

<https://www.gov.uk/how-to-classify-different-types-of-waste>

13 07 wastes of liquid fuels

13 07 01* fuel oil and diesel

13 07 02* petrol

13 07 03* other fuels (including mixtures)

15 01 packaging (including separately collected municipal packaging waste)

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 03 wooden packaging

15 01 04 metallic packaging

15 01 05 composite packaging

15 01 06 mixed packaging

15 01 07 glass packaging

15 01 09 textile packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances

15 01 11* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

16 02 wastes from electrical and electronic equipment

16 02 09* transformers and capacitors containing PCBs

16 02 10* discarded equipment containing or contaminated by PCBs other than those mentioned in

16 02 09

16 02 11* discarded equipment containing chlorofluorocarbons, HCFC, HFC

16 02 12* discarded equipment containing free asbestos

16 02 13* discarded equipment containing hazardous components (2) other than those mentioned in 16 02 09 to 16 02 12

16 02 14 discarded equipment other than those mentioned in 16 02 09 to 16 02 13

16 02 15* hazardous components removed from discarded equipment

16 02 16 components removed from discarded equipment other than those mentioned in

16 02 15



16 10 aqueous liquid wastes destined for off-site treatment

- 16 10 01* aqueous liquid wastes containing dangerous substances
- 16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01
- 16 10 03* aqueous concentrates containing dangerous substances
- 16 10 04 aqueous concentrates other than those mentioned in 16 10 03

17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)

17 01 concrete, bricks, tiles and ceramics

- 17 01 01 concrete
- 17 01 02 bricks
- 17 01 03 tiles and ceramics
- 17 01 06* mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
- 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06

17 02 wood, glass and plastic

- 17 02 01 wood
- 17 02 02 glass
- 17 02 03 plastic
- 17 02 04* glass, plastic and wood containing or contaminated with dangerous substances

17 03 bituminous mixtures, coal tar and tarred products

- 17 03 01* bituminous mixtures containing coal tar
- 17 03 02 bituminous mixtures other than those mentioned in 17 03 01
- 17 03 03* coal tar and tarred products

17 04 metals (including their alloys)

- 17 04 01 copper, bronze, brass
- 17 04 02 aluminium
- 17 04 03 lead
- 17 04 04 zinc
- 17 04 05 iron and steel
- 17 04 06 tin
- 17 04 07 mixed metals
- 17 04 09* metal waste contaminated with dangerous substances
- 17 04 10* cables containing oil, coal tar and other dangerous substances
- 17 04 11 cables other than those mentioned in 17 04 10

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

- 17 05 03* soil and stones containing dangerous substances
- 17 05 04 soil and stones other than those mentioned in 17 05 03
- 17 05 05* dredging spoil containing dangerous substances
- 17 05 06 dredging spoil other than those mentioned in 17 05 05
- 17 05 07* track ballast containing dangerous substances
- 17 05 08 track ballast other than those mentioned in 17 05 07



17 06 insulation materials and asbestos-containing construction materials

- 17 06 01* insulation materials containing asbestos
- 17 06 03* other insulation materials consisting of or containing dangerous substances
- 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03
- 17 06 05* construction materials containing asbestos (7)

17 08 gypsum-based construction material

- 17 08 01* gypsum-based construction materials contaminated with dangerous substances
- 17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

17 09 other construction and demolition wastes

- 17 09 01* construction and demolition wastes containing mercury
- 17 09 02* construction and demolition wastes containing PCB (for example PCB containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)
- 17 09 03* other construction and demolition wastes (including mixed wastes) containing dangerous substances
- 17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans

- 18 01 01 sharps (except 18 01 03)
- 18 01 03* wastes whose collection and disposal is subject to special requirements in order to prevent infection

20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 separately collected fractions (except 15 01)

- 20 01 01 paper and cardboard
- 20 01 02 glass
- 20 01 08 biodegradable kitchen and canteen waste
- 20 01 10 clothes
- 20 01 11 textiles
- 20 01 13* solvents
- 20 01 14* acids
- 20 01 15* alkalines
- 20 01 17* photo chemicals
- 20 01 19* pesticides
- 20 01 21* fluorescent tubes and other mercury-containing waste

20 03 other municipal wastes

- 20 03 01 mixed municipal waste



6.0. Management of Waste

The production of waste material on this site during the construction phase is to be avoided wherever possible by following the Reduce, Reuse, Recycle/Recover measures outlined below. Only where these routes have been exhausted should waste be sent for disposal.

6.1. Waste Control and Disposal

As part of Mount Anvil Sustainability and Environmental Policies where possible all waste materials should be reduced, re-used, or recycled. Under the Environmental Protection Act, all producers of waste have a 'Duty of Care' to ensure that waste does not escape their control and is dealt with properly.

Each site must have a Site Waste Management Plan (SWMP) in place prior to works starting on site. This identifies how waste will be reduced, reused and recycled on site as well as recording details of all materials that leave the site.

The materials must be carried by an authorised and licensed waste carrier who may carry both the General (Controlled) Waste as well as any Hazardous Waste.

There is a requirement for waste transfer notes to track the journey of the waste to its final destination whether that is a recycling centre or final disposal.

Sub-contractors will be required to detail their waste recycling figures on form ENV-FM-10.5 and return in the monthly packs. The Project Environmental Co-ordinator will then accumulate this data into the Project Waste recycling figures form, ENV-FM-10.4.

Waste Licences, waste carrier permits and waste end disposal sites for both Mount Anvil and each contractor will be added to the Duty of Care form, ENV-FM-10.6.

The segregation of waste into different waste streams will, where practicable, assist in recycling



6.2. Reduce and Reuse Measures

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

General,

Waste Reduction Measures: *(add details below, ie material ordering, storage, deliveries)*

- **(add details) Correct storage of materials on site. Correct storage will reduce damage and improve efficiency.**
- **(add details) Just in time delivery to site. Reducing the time materials are stored on site will improve efficiency and reduce the time when damage can take place.**
- **(add details) Mount Anvil will employ a Store man. Storeman's duties will include the monitoring of correct storage and ordering culture**
- **(add details) Order materials cut / delivered to size, and components fabricated / made off site where possible.**

The following components are to be prefabricated: *(add details below, ie ground beams, floor slabs etc)*

- **(add details) Pile reinforcement cages**
- **(add details) Other areas of complex reinforcement**
- **(add details) Some areas of complex pipework / valves**
- **(add details) Door sets for apartment doors**
- **(add details)**

All operatives are to receive training on the agreed reduction measures.

Waste Reuse Measures:

- **(add details) Crushed concrete and masonry for piling mat**
- **(add details) Excavated materials to good use off site > identify opportunity at the time of excavation.**

Reduce and Reuse Measures

Excavated Material (Soil & Stones)

Waste Reduction Measures:

- **(add details) Minimise overdig through accurate engineering**
- **(add details) Blind formation areas when reached / exposed to protect the ground below and allow works to proceed from a clean - not mud covered - base.**
- **(add details)**



- (add details) Correct storage and storekeeping on site

- (add details)

Waste Reuse Measures:

- (add details) Re use to backfill excavations and compacted outside basement walls
- (add details) Re use off site - capping / landscaping opportunities to be assessed at the time of excavation works.
- (add details)
- (add details)

- (insert figure m³) 100 to be used as backfill to excavations

- (insert figure m³) 0 to be used as landscape bunds

Reduce and Reuse Measures

Hardcore

Waste Reduction Measures:

- (add details) Minimise ordering > up to June 2015 none has been brought to site.
- (add details) Re use of existing hardstandings - road - River Terrace - as main site entrance.
- (add details) Blind early to protect soils below formation level.
- (add details)

Waste Reuse Measures:

- (add details) Re cycle - re use off site.
- (add details) Use in backfill where possible
- (add details)
- (add details)

Timber

Waste Reduction Measures:

- (add details) Being segregated on site and sent for recycling > from demolition - 200m³
 - (add details) Order to size required
 - (add details) Set aside off cuts for re use
- Monitor s/c performance - call for improvement when required.

Waste Reuse Measures:

- (add details) Re cycle off site - segregate
- (add details) Re use off cuts where possible
- (add details)
- (add details)

Packaging

Waste Reduction Measures:



- (add details) Avoid unnecessary packaging through liaison / feedback to suppliers
- (add details) S/C to manage and take back packaging for re use eg kitchens and mechanical plant
- (add details)
- (add details)

Waste Reuse Measures:

- (add details) Segregate on site
- (add details) Collection for re cycling of paper and card
- (add details)
- (add details)

Reduce and Reuse Measures

Gypsum Based Materials (inc. plasterboard)

Waste Reduction Measures:

- (add details) Cut to size off site
- (add details) Correct storage on site
- (add details) Set aside off cuts for re use
- (add details) Monitor s/c performance - call for improvement when required.

Waste Reuse Measures:

- (add details) Re use off cuts
- (add details) S/C will be responsible for taking waste from site for re-use in liaison with the supplier.
- (add details)
- (add details)

Insulation Materials

Waste Reduction Measures:

- (add details) Correct ordering - not over ordering - insulation suppliers love to deliver large quantities at a discount price causing logistical issues to the project.
- (add details) Correct storage on site
- (add details) Cut to size / appropriate sizing
- (add details) Set aside off cuts - spare quantities - for re-use

Waste Reuse Measures:

- (add details) Re use spare - off cut stock
- (add details) S/C to remove from site in liaison with supplier
- (add details) Re use off site
- (add details) Monitor s/c performance and call for improvement if required



Metals

Waste Reduction Measures:

- (add details) Correct ordering and storage on site
- (add details) Off site pre fabrication wherever practicable
- (add details) Set aside spare - off cut for reuse
- (add details) Monitor s/c performance and call for improvement if required > main producers will be RC frame, cladding, drylining..

Waste Reuse Measures:

- (add details) Segregate stream on site
- (add details) Collection for re cycling
- (add details) Re use from stock where possible
- (add details)

Reduce and Reuse Measures

Plastic

Waste Reduction Measures:

- (add details) Correct ordering and storage on site
- (add details) Set aside spare - off cut for reuse
- (add details) Monitor s/c performance and call for improvement if required
- (add details)

Waste Reuse Measures:

- (add details) Re use from stock where possible
- (add details) Collection for re cycling
- (add details)
- (add details)

Glass

Waste Reduction Measures:

- (add details) Correct ordering and storage on site
- (add details) Careful handling on site and during installation
- (add details) Protection of installed glass to minimise scratching / damage and the need for replacement
- (add details) Training / briefing for cleaners - glass is often damaged by operatives using scrapers incorrectly.

Waste Reuse Measures:

- (add details) Stream seperatley - both for safety and recycling purposes.
- (add details)
- (add details)



• [\(add details\)](#)

6.3. Recycle / Recover Measures

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

Uncontaminated excavation waste

Insert site specific measure to be employed at this site.

Uncontaminated excavation waste in excess of the quantities required on site will be

[\(add details\)](#) **Approximately 40,000m³ of uncontaminated soil will be removed from site. MPB are the contractor - haulier / destination are being finalised**

Mixed packaging waste

Insert site specific measure to be employed at this site.

Mixed packaging waste is to be deposited in

[\(add details\)](#) **Separate compound area - for sorting and baling**

This waste will then be removed off site for recycling as detailed in section 7

Wood waste

Insert site specific measure to be employed at this site.

Wood waste is to be deposited in

[\(add details\)](#) **Site have committed to a recycling charity called (Wood Recycle project)**

[Note: This service is not available in all areas]

The local Community Wood Recycling scheme will sort into usable and unusable timber.



Useable timber will be taken off site to the Community Wood Recycling depot for manufacture into furniture, animal bedding, etc. Unusable timber will be placed in skips provided for removal to the recycling facility for further treatment.

(confirm if details above apply) To be investigated further - review July 2015

Mixed Metals

Insert site specific measure to be employed at this site.

Mixed Metals are to be deposited in

(add details) Metals skip - or placed in segregated store area.

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

Gypsum Plasterboard waste

Insert site specific measure to be employed at this site.

Gypsum plasterboard waste is to be deposited in

(add details) Designated skip / container or bags. This waste stream will be managed by our appointed drylining/plastering s/c in liaison with their supplier/s. We expect the gypsum plasterboard waste to be sent for recycling.

(add other waste details)

6.4. All Other Waste

Insert site specific measure to be employed at this site.

All other waste with the exception of hazardous waste) is to be deposited in the Mixed Waste skips provided and detailed in section 7 for removal to their transfer station for further segregation and onward recycling. Canteen and office waste, which cannot be segregated into any of the above, will be placed in the mixed waste skip

(add details) Mixed waste skips will be provided by Powerday. At their facility they report 100% recycling is achieved.

6.5. Disposal Responsibilities

Subcontractors responsible for removing their own Hazardous and Non-hazardous waste are identified in the sub-contractors section after completion of Duty of Care form (ENV-FM-10.6), this document identifies the waste collection details and disposal sites for each sub-contractor.

Non-hazardous waste from all other subcontractors is to be segregated where required and deposited in the appropriate skip/bin. Details of all Non-hazardous disposal sites and contractors are contained



6.6. Management of Hazardous Waste

Hazardous waste produced by Mount Anvil is to be placed in the correct Hazardous waste receptacle, as identified by

(add details) clear signage > for > mastic and adhesive tube, electricals, light tubes / bulbs for disposal by relevant companies detailed in section 7. The Site Waste Co-ordinator will check each item of waste prior to collection to confirm whether the waste is hazardous, and wherever possible render it non-hazardous for removal in general waste skips.

Hazardous waste produced by subcontractors is to be removed off site by the subcontractor in accordance with the hazardous waste regulations. Their procedure for complying with these regulations, including details of carriers and disposers, is to be submitted to Mount Anvil for inclusion within the Site Waste Management Plan prior to removal.

Details of all hazardous waste disposal sites and contractors are explained within section 8.

7.0. Waste Carrier Details & Disposers

7.1. Waste Carriers & Disposers

Before any waste is removed from site you must obtain details of all Carriers, and their registration numbers, and Disposers, and their Waste Management License Numbers for each waste stream produced, and insert those details into the waste management plan. It must be ensured that the disposal facility is licensed to take the waste it is being sent to.

The type of facility will determine the recycling percentages required for the Waste KPIs. Where waste is segregated, you may be able to insert 'Recycling Facility' as the disposal site.

Use form [ENV-FM-10.6 Duty of Care Form](#) to capture Waste Carriers and Disposal site details. Contractors must sign the declaration to confirm the information provided is accurate.

Example below

Waste Carriers						
Waste Carriers	Telephone Number	Environment Registration	Waste Carriers Permit / Licence Number	Expiry Date	Hazardous Waste Y-N	Waste Disposal



Name		Number				Site
<i>Toulouse</i>	<i>0208 305 9641</i>	<i>CB/XP3978SE</i>	<i>EPR/UP3990EK</i>	<i>30/07/13</i>	Y	Site 1
<i>Ground Waste</i>	<i>0208 238 7000</i>	<i>CB/JN5719XD</i>	<i>EPR/SP3593EM</i>	<i>02/05/15</i>	Y	Site 2
cappagh Ltd	02089474000	CB/FE5402QA		16/12/2017		Site 3
Powerday	020 8960 4646	CB/VE5235EL	EPR/PP3093EE	12/9/2016		Site 4
						Site 5
						Site 6

Waste Disposal Sites		
Waste Disposal Site	Waste End Disposal Site (Name & Address)	Type of Waste Disposal Site
Site 1	<i>Toulouse Plant Hire 55-71 Norman Rd, London SE10 9QF</i>	<i>All Waste Transfer Station</i>
Site 2	<i>Cripps Skips, Nightingale Works London NW2 1LR</i>	<i>All Waste Transfer Station</i>
Site 3	Cappagh public works Ltd Cappagh house waterside way-Wimbledon SW17 7AB	All Waste Transfer station
Site 4		
Site 5		
Site 6		

The Waste Removal Contractors selected for this project will recycle the majority of the waste produced.

The supporting documentation for all waste removal **shall** be retained within the Project Office, this includes:

- **Waste Carrier Licence** – For all waste removal contractors
- **Waste Management Licence** – For waste transfer stations and the final destination of waste
- **Controlled Waste Transfer Note** – Required each time non hazardous waste is removed
- **Hazardous Waste Consignment Note** – Required each time hazardous waste is removed
- **Hazardous Registration Form** – Required if hazardous waste is produced

8.0. Record of Waste Removed / Recycled

A record of all waste removed/recycled from this site will be recorded on the Project Waste Recycling figures form (ENV-FM-10.4). To compile this form sub-contractors must submit their Waste/Recycling figures for each month on the Contractors Waste Recycling Figures form ENV-FM-10.5.



9.0. Post Contract Review

This section of the plan is to be completed prior to the Post Contract Review, and discussed as part of the review meeting. The estimated quantities should be drawn from the table in section 2 and the actual quantities should be drawn from the waste **removed off site** as detailed in form ENV-FM-10.4.

Post Contract Review

Estimate of Cost Saving

Detail below the estimated cost savings obtained by following the plan.

[\(add details\)](#)

Explanation of Any Deviation from the Original Plan

Explain below the reasons for any change from the original plan.

[\(add details\)](#)

[\(add any other details\)](#)



10.0. Other Additional Information

[\(add details\)](#)