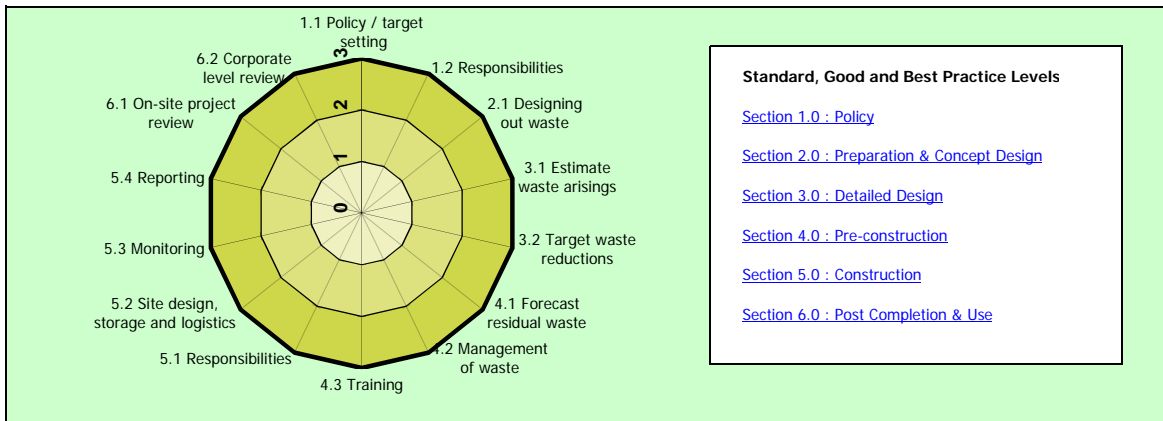


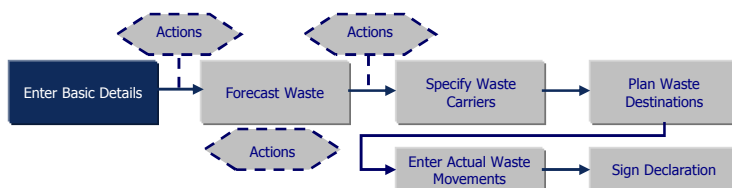
Site Waste Management Plan

2.41

Project Stage	SWMP Section	Guidance	Compliance
Policy and setup	1 Enter Basic Details	Section 1.0	Pre- Construction Status: Not compliant Non Compliances: 2 / 11 Review >
Preparation and concept design	2 Record Waste Prevention Actions	Section 2.0	
Detailed design	3 Forecast Waste Record Waste Reduction Actions	Section 3.0	
Pre-construction	4 Specify Waste Carriers Plan Waste Destinations Record Waste Management and Recovery Actions	Section 4.0	Construction Status: Not compliant Non Compliances: 16 / 16 Review >
Construction	5 Enter Actual Waste Movements	Section 5.0	
Post completion and use	KPI's 6 Reporting Sign Declaration	Section 6.0	

Standard, Good and Best Practice Levels





Basic Details

Client name :	A2 Dominion, P3Eco
Principal contractor :	TBC
Owner of document :	Hyder Consulting
Project title :	Bicester Eco development
Project Reference :	Application 1 (North of Railway)
Project location :	Bicester
Project postcode :	OX27 8TG
Construction value :	TBC
Type of construction :	Mixed use developments
Activity :	New construction

Metrics
Please select metrics applicable to your project. These metrics are then used in the KPI sheet to track your progress.

Metric	Amount	Unit
Footprint (m2) of site	33,139	m2

Project targets
Please select project targets applicable to your project

KPI	Phase	Target	Unit
Waste to landfill	Construction	0	t
Waste to landfill	Demolition	0	t
Waste to landfill	Excavation	0	t

Schedule

Start date :	TBC	dd/mm/yy
Completion date :	TBC	dd/mm/yy

Persons legally required to be identified (SWMP Regulations 2008 Section 6 (1))

Position	Name	Contact Details
Client	A2 Dominion, P3Eco	
Principal Contractor	TBC	
Site Waste Management Plan Drafter	Hyder Consulting	Simon.Hunt@hyderconsulting.com
Others (not legally required)		
Client WM Representative (if applicable)		
Project Manager		
Waste Management Coordinator/Champion		

Design Coordinator		
Document Controller / Secretary		

Confirmation that the plan has been monitored on a regular basis to ensure that work is progressing according to the plan and that the plan was updated in accordance with the SWMP Regulations (2008). Required for all projects

Signed by:	
	Organisation:
	Position:
	Date:

Signed by:	
	Organisation:
	Position:
	Date:

**Explanation of any deviation from the plan
(Required for projects over £500,000)**

1	
2	
3	
4	
5	
6	
7	

**Where relevant, drawing on any lessons learnt, an action plan to address these for the next project
(Required for projects over £500,000)**

1	
2	
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7	

Tell me about:

- 2 Waste Prevention Actions
- 3 Waste Reduction Actions
- 4 Waste Management and Recovery Actions

I have: recorded any decisions taken before the Site Waste Management Plan was drafted, on the nature of the project, construction method or materials employed in order to minimise the quantity of waste produced on site.

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document / Waste stream	Material type	Estimated Cost Saving	Waste reduced		Date for completion (dd/mm/yyyy)	Status
							(m ³)	(tonnes)		
1	Waste Prevention Action	Complete a WRAP Designing out Waste Workshop.	Design Consultants	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
2	Waste Management and Recovery Action	Investigate options for recovering site won materials for reuse on site.	Design Consultants	Inert - Soil & stones	soil and stones other than those mentioned in 17 09 03					
3	Waste Prevention Action	Incorporate prefabricated elements where cost neutral/negative.	Design Consultants	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
4	Waste Prevention Action	Use off-site fabrication of closed panels timber frames wherever possible.	Design Consultants	Metals	iron and steel					
5	Waste Prevention Action	Standardise height of rooms to match plasterboard dimensions.	Architect	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
6	Waste Prevention Action	Ensure that floor to ceiling heights are consistent to encourage off-site fabrication.	Design Consultants	Mixed Hazardous - C&D waste (17 09 03*)	other construction and demolition wastes containing dangerous substances					
7	Waste Prevention Action	Minimise the number of 'bespoke' design solutions and maximise the number of standardised units and design details (e.g. Bathrooms).	Design Consultant	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
8	Waste Reduction Action	Retain top soil, treat it onsite with compost (or chippings) and use soft landscaping etc.	Principal Contractor	Inert - Soil & stones	soil and stones other than those mentioned in 17 09 03					
9	Waste Reduction Action	Use existing soft landscape that can't be retained (trees, shrubs) as compost and soft landscape top much.	Principal Contractor	Wood	wood					
10	Waste Prevention Action	Use recycled aggregates (either onsite or offsite) in concrete mix, as fill, etc.	Principal Contractor	Inert - mixture of concrete, concrete, bricks, tiles etc.	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06					
11	Waste Reduction Action	Reuse packaging by returning to supplier/manufacturer or using it for other purposes (e.g. Timber packaging pallets can be chipped and used for landscaping top much).	Principal Contractor	Packaging	mixed packaging					
12	Waste Prevention Action	Embed all of the design options to be pursued into project findings and procurement documentation as standard.	Principal Contractor							
13	Waste Management and Recovery Action	Use site paper to compact paper, card and plastic packaging to take up less space ready for recycling.	Principal Contractor	Packaging	mixed packaging					
14	Waste Management and Recovery Action	Use the national colour-coding scheme for waste containers to ensure waste is separated efficiently.	Principal Contractor	Other C&D segregated waste						

Tell me about:

- 2 Waste Prevention Actions
- 3 Waste Reduction Actions
- 4 Waste Management and Recovery Actions

I have: recorded any decisions taken before the Site Waste Management Plan was drafted, on the nature of the project, construction method or materials employed in order to minimise the quantity of waste produced on site.

Waste Actions

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document /	Waste stream	Material type	Estimated Cost Saving	Waste reduced		Date for completion (dd/mm/yyyy)	Status
								(m ³)	(tonnes)		
15	Waste Management and Recovery Action	Order materials in bulk where appropriate with minimal / reusable packaging where possible.	Principal Contractor		Packaging	mixed packaging					
16	Waste Prevention Action	When incorporating requirements for waste reduction in procurement documents, refer to WRAP guidance on model wording.	Principal Contractor								
17	Waste Prevention Action	Put in place Materials Logistic Plan looking at supply routes, handling, storage and security for main construction phase of the project.	Principal Contractor								
18	Waste Prevention Action	Apply these schemes to be set up with all sub-contractors.	Principal Contractor								
19	Waste Prevention Action	Setup an off cut area for plasterboard, all plasterboard to be sent to specific plasterboard recycling centre.	Principal Contractor		Gypsum (17 08 02)	gypsum-based construction materials other than those mentioned in 17 08 01					
20	Waste Prevention Action	Use recycled material in sub-base.	Principal Contractor		Inert - Soil & stones	soil and stones other than those mentioned in 17 05 03					
22	Waste Prevention Action	Supplier to provide block paviour construction for thinner construction, where possible.	Principal Contractor		Inert - mixture of concrete, bricks, tiles etc.	mixed packaging					
23	Waste Prevention Action	Specify biodegradable packaging where possible.	Principal Contractor		Packaging	tiles and ceramics					
24	Waste Prevention Action	Specify the use of ceramic tiles with high percentage of recycled content.	Architect		Inert - mixture of concrete, bricks, tiles etc.	tiles and ceramics					
25	Waste Prevention Action	Specify the use of reconstituted faced stones with a high percentage of recycled content.	Architect		Inert - Soil & stones	soil and stones other than those mentioned in 17 05 03					
26	Waste Prevention Action	Specify the use of reconstituted slates with a high percentage of recycled content.	Architect		Inert - mixture of concrete, bricks, tiles etc.	tiles and ceramics					
27	Waste Prevention Action	Specify the use of street furniture made with recycled plastic.	Design consultants		Metals	mixed metals					
28	Waste Prevention Action	Specify the use of recycled material in compost.	Design consultants		Mixed C&D waste (17 09 04)						
29	Waste Prevention Action	Specify the use of windows with recycled PVC.	Architect		Other C&D segregated waste	plastic					
30	Waste Prevention Action	Translocate existing hedgerows where appropriate.	Design consultants		Other C&D segregated waste	biodegradable waste					
31	Waste Management and Recovery Action	Suppliers remove and process waste, eg. Paint.	Principal Contractor		Segregated Haz Waste						
32	Waste Prevention Action	Specify recycled content in hard landscaping, eg eco kerb 75% quarry waste.	Architect		Inert - Soil & stones						
33	Waste Prevention Action	Specify recycled plant pots or root ball wrapping.	Architect		Other C&D segregated waste						
34	Waste Prevention Action	Specify recycled plastic planks for use on site.	Architect		Other C&D segregated waste	plastic					
35	Waste Prevention Action	Specify pre-made pedestrian/cycle bridges.	Architect		Metals	mixed metals					
36	Waste Prevention Action	Specify thermawood cladding - kiln dried, so doesn't require treatment.	Architect		Other C&D segregated waste						
37	Waste Prevention Action	Specify street furniture made with stainless steel (for long life).	Design consultants		Metals	mixed metals					
38	Waste Prevention Action	Combine utilities in single trench.	Design consultants		Other C&D segregated waste						

Tell me about:

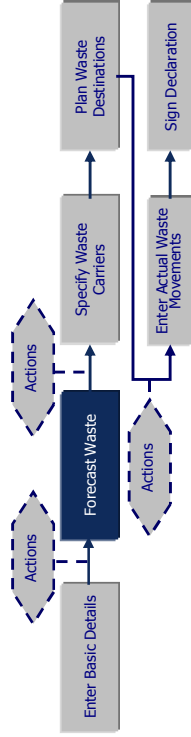
- 2 Waste Prevention Actions
- 3 Waste Reduction Actions
- 4 Waste Management and Recovery Actions

Have I recorded any decisions taken before the Site Waste Management Plan was drafted, on the nature of the project, construction method or materials employed in order to minimise the quantity of waste produced on site. Yes

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document /	Waste stream	Material type	Estimated Cost Saving	Waste reduced		Date for completion (dd/mm/yyyy)	Status
								(m ³)	(tonnes)		
39	Waste Prevention Action	Minimise number of house types.	Architect		Other C&D segregated waste						
42	Waste Prevention Action	Order components as required for plots.	Principal Contractor		Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
43	Waste Prevention Action	Loft spaces designed to enable easy conversion.	Architect		Other C&D segregated waste						
44	Waste Prevention Action	Design to lifetime homes standard.	Architect		Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03					
45	Waste Prevention Action	Specify windows that could be recyclable in future.	Architect		Other C&D segregated waste						
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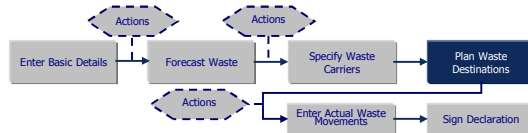
A2 Dominion, P3Eco
TBC
Bicester Eco development
Application 1 (North of Railway)

I have : No Yes

described each waste type expected to be produced in the course of the project:

Forecast Waste

C, D or E Activity	Waste Stream	Material Type	Further description of waste - optional	Suggested LOW Code	Forecast Quantities			Calculated Quantities (Converting between m ³ and t)		
					Waste or Re-Use	(m ³)	(tonnes)	(m ³)	(tonnes)	Forecast provided by
Excavation	Packaging	plastic packaging	biodegradable kitchen and canteen waste	15 02 02	Off-site destination	###	###	###	###	A.N Other
Construction	Other C&D segregated waste	waste		20 01 08	Off-site segregated	4956.29	49	991		BRE Benchmarks
Construction	Inert - mixture of concrete, bricks, tiles etc.	bricks		17 01 02	On-site re-use	3940.69	3941	4729		BRE Benchmarks
Construction	Inert - mixture of concrete, bricks, tiles etc.	concrete		17 01 01	On-site re-use	5334.66	5335	6775		BRE Benchmarks
Construction	Other C&D segregated waste	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35		20 01 36	Off-site segregated	442.51	443	111		BRE Benchmarks
Construction	Other C&D segregated waste	Furniture and bulky items		20 03 07	Off-site segregated	234.29	234	42		BRE Benchmarks
Construction	Mixed Hazardous - C&D waste (17 09 03*)	other construction and demolition wastes containing dangerous substances		17 09 03*	Off-site segregated	158.17	158	138		BRE Benchmarks
Construction	Inert - mixture of concrete, bricks, tiles etc.	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06		17 01 07	On-site re-use	2149.99	2150	2666		BRE Benchmarks
Construction	Other C&D segregated waste	insulation materials other than those mentioned in 17 06 01 and 17 06 03		17 06 04	Off-site segregated	2938.65	2939	735		BRE Benchmarks
Construction	Mixed Hazardous - C&D waste (17 09 03*)	wastes containing dangerous substances	Liquids	17 09 03*	Off-site segregated	128.84	129	112		BRE Benchmarks
Construction	Metals			17 04 07	Off-site segregated	1726.85	1727	725		BRE Benchmarks
Construction	Packaging			15 01 06	Off-site segregated	7,308.37	7308.37	1534.76		BRE Benchmarks
Construction	Gypsum (17 08 02)			17 08 02	Off-site segregated	5,212.96	5212.96	1720.28		BRE Benchmarks
Construction	Other C&D segregated waste	baled plastic		17 02 03	Off-site segregated	2,791.68	2791.68	642.09		BRE Benchmarks
Construction	Wood			17 02 01	Off-site segregated	5,014.76	5014.76	1705.02		BRE Benchmarks
							0.00	0.00		
							0.00	0.00		
							0.00	0.00		
							0.00	0.00		
							0.00	0.00		
							0.00	0.00		
							0.00	0.00		



Tell me about this sheet

I have identified :

the waste management action proposed for each different waste type, including re-using, recycling, recovery and disposal. Yes

I have ensured that :

all waste from the site is dealt with in accordance with the waste duty of care in section 34 of the Environmental Protection Act 1990(3) and the Environmental Protection (Duty of Care) Regulations 1991(4); and No
 materials will be handled efficiently and waste managed appropriately No

	Total (m ³)	Total (t)
Total from Waste Streams	26006.08	8455.84
Total Reused on site	11425.34	14169.83

Sign declaration (Print sheet and sign declaration or copy electronic signature)

Signed By: _____ Signed By: _____
 Organisation: _____ Organisation: _____
 Position: _____ Position: _____
 Date: _____ Date: _____

Plan Waste Destinations

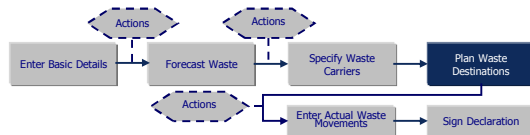
- [Construction](#)
- [Demolition](#)
- [Excavation](#)

Construction								
Waste sent offsite	Forecast		Proposed Destination	% Diverted from landfill	Cost of waste disposal			Comments
	Estimated Volume (m ³)	Estimated Weight (t)			£/m ³	£/t	Cost Forecast	
Gypsum	5212.96	1720.28	MRF (Construction Gypsum (17 08 02))	95%			FALSE	
Metals	1726.85	725.28	Metal Recycling facility (Construction Metals)	100%			FALSE	
Wood	5014.76	1705.02	Wood recycling facility (Construction Wood)	95%			FALSE	
Packaging	7308.37	1534.76	MRF (Construction Packaging)	95%			FALSE	
Mixed Hazardous - C&D waste	287.01	249.70	Hazardous waste recycling facility (Construction Segregated Haz Waste)	75%			FALSE	
Other C&D segregated waste	6456.13	2520.81	MRF (Construction Other C&D segregated waste)	75%			FALSE	
	26006.08	8455.84					£0.00	

Forecast		
Retained on site	Estimated Volume (m ³)	Estimated Weight (t)
Reused on site	11425.34	14169.83
	11425.34	14169.83

Demolition								
Waste sent offsite	Forecast		Proposed Destination	% Diverted from landfill	Cost of waste disposal			Comments
	Estimated Volume (m ³)	Estimated Weight (t)			£/m ³	£/t	Cost Forecast	
	0.00	0.00					£0.00	

Forecast		
Retained on site	Estimated Volume (m ³)	Estimated Weight (t)



?

Tell me about this sheet

I have identified :

the waste management action proposed for each different waste type, including re-using, recycling, recovery and disposal. Yes

I have ensured that :

all waste from the site is dealt with in accordance with the waste duty of care in section 34 of the Environmental Protection Act 1990(3) and the Environmental Protection (Duty of Care) Regulations 1991(4); and materials will be handled efficiently and waste managed appropriately No

	Total (m ³)	Total (t)
Total from Waste Streams	71233.75	23775.59
Total Reused on site	12216.09	15150.38

Sign declaration (Print sheet and sign declaration or copy electronic signature)

Signed By: _____ Signed By: _____
 Organisation: _____ Organisation: _____
 Position: _____ Position: _____
 Date: _____ Date: _____

Plan Waste Destinations

- [Construction](#)
- [Demolition](#)
- [Excavation](#)

	0.00	0.00

Excavation

Waste sent offsite	Forecast		Proposed Destination	% Diverted from landfill	Cost of waste disposal			Comments
	Estimated Volume (m ³)	Estimated Weight (t)			£/m ³	£/t	Cost Forecast	
	0.00	0.00					£0.00	

Retained on site	Forecast	
	Estimated Volume (m ³)	Estimated Weight (t)
	0.00	0.00



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Tell me about this sheet

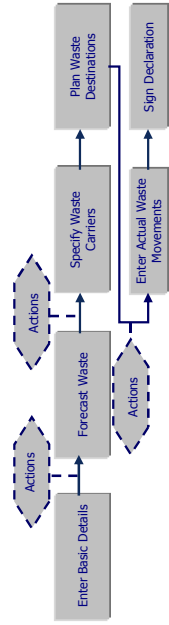
Waste Totals

Display summary as:
Tonnes

Waste Stream	Total waste arising (Tonnes)	Total material retained on site (Tonnes)	Total waste sent offsite (Tonnes)	Total waste to landfill (Tonnes)	Total waste recovered offsite (Tonnes)	Cost of waste disposal
Inert - Soil & stones						£0.00
Hazardous - Soil & stones						£0.00
Non Haz (Non Inert) - Dredgings						£0.00
Segregated Haz - Soil & stones						£0.00
Gypsum						£0.00
Metals						£0.00
Wood						£0.00
Packaging						£0.00
Inert - Building rubble						£0.00
Inert - Glass						£0.00
Mixed Hazardous - C&D waste						£0.00
Mixed C&D waste						£0.00
Segregated Haz Waste						£0.00
Other C&D segregated waste						£0.00
Other						£0.00

Actual Waste Movements

Movement Number	C, D or E Activity	Waste Stream	Material Type	Further description of waste - optional	LOW Code used	On or off-site destination	Off-site carrier	Off-site destination	Override facility recovery rate for individual skip	Overall diversion from landfill / recovery (further detail on Sheet 4)	Date of Movement(s) (dd/mm/yyyy)	Waste Totals				
												(m ³)	(tonnes)	Actual Cost	£/m ³	£/t
1										100%						
2										100%						
3										100%						
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Tell me about this sheet

1.0 Policy

Step 1.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Policy / target setting	At this early stage it is advisable that high level targets are set which will govern and inform company strategy.	Standard	Set high level qualitative aspirational policy goals for company performance on reducing waste arisings and increasing waste recovery.	WRAP have produced a number of Model Procurement clauses which can be incorporated into procurement documents to help meet these requirements. The model wording relates to policy documents, invitation to tender documents, pre-qualification questionnaires or contractual appointment documents.	Best Practice	
	These targets will then be incorporated into each construction project as they progress along the project lifecycle (and through the RIBA stages).	Good	Insert quantified company wide targets for reducing waste arisings and increasing waste recovery into company policy documents.	Actions 1A, 1B and 1C contain model wording that helps clients and principal contractors to set corporate, high level and project specific targets for achieving resource efficiency in construction projects. The guidance can be found here: http://www.wrap.org.uk/construction/achieving_resource_efficiency/model_procurement_requirements/index.html		
		Best	Process to insert quantified project specific waste reduction targets based on industry Best Practice benchmarks or previous project experience for reducing waste arisings and increasing waste recovery into company policy documents.			

Step 1.2	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Responsibilities (for the SWMP)	There are a number of required responsibilities for early stage coordination of the Site Waste Management Plan (SWMP). Responsibilities for the operation of the SWMP are listed below in section 5.1.	Standard Good Best	Meet requirements for identifying the client, principal contractor and person drafting the Site Waste Management Plan. Involve all members of the project team and ensure everyone knows about SWMP and how it affects them. Include SWMP responsibilities as an agenda item at project team meetings; ensuring all team members are involved and contribute to project waste reduction and recovery actions.	WRAP have produced a number of Model Procurement Requirements to help incorporate these requirements into prequalification questionnaires and invitation to tender documents. The guidance can be found here: http://www.wrap.org.uk/construction/achieving_resource_efficiency/model_procurement_requirements/index.html	Best Practice	

2.0 Preparation and Concept design

It is advisable that early on in the design process waste planning is included in the agenda of client and design team meetings. The design guidance document, Designing out Waste, identifies the process that can be applied to further achieve this aim:

Step 2.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Designing Out Waste	There are numerous opportunities to reduce waste during the design process. Designing out waste before it arises is one of the most efficient ways to reduce project waste arisings. However, as such decisions need to be taken early, engagement with the design team early on in the life of a project is key.	Standard	Capture decisions made that may have an impact on waste. These decisions may not have been taken with waste reduction in mind, but may have an effect on project waste arisings nonetheless.	WRAP provide regeneration and demolition guidance that can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/regeneration.html	Best Practice	
		Good	Discuss with the project team at an early design stage how it might be best to reduce waste arisings through making changes to the design.	WRAP provide guidance on Designing Out Waste, which can be found here: http://www.wrap.org.uk/designingoutwaste		
		Best	Systematically identify, prioritise and implement waste reduction actions at the design stage. Consider cost, programme and waste reduction potential.			

3.0 Detailed Design

Step 3.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Estimate waste arisings	Estimating waste arisings involves identifying and recording the amount and destination of each waste stream that will be generated on site. The earlier in the project lifecycle that waste streams are estimated, the more opportunity there will be to prevent their creation.	Standard	Standard practice is to estimate waste arisings at the pre-construction stage.	WRAPs freely available Net Waste Tool allows you to enter simple project details and forecast likely waste arisings, together with suggesting waste reduction and segregation opportunities and recycled content material substitutions. The Net Waste Tool can be accessed here: http://nwtool.wrap.org.uk/	Best Practice	
		Good	Forecast waste arisings for each component using industry data.			
		Best	Forecast waste arisings for each component using modified wastage rates based on past company experience.			
Target waste reductions	This Step involves identifying and recording waste reduction methods to reduce the quantity of waste estimated in Step 3.2.	Standard	Identify waste management action for each of the different waste types forecast to arise on the construction project, including re-using, recycling, recovery and disposal.	WRAPs freely available Net Waste Tool allows you to enter simple project details and forecast likely waste arisings, together with suggesting waste reduction and segregation opportunities and recycled content material substitutions. The Net Waste Tool can be accessed here: http://nwtool.wrap.org.uk/	Best Practice	
		Good	Target waste arisings for each construction component using industry standard actions			
		Best	Target waste arisings for each construction component. As an example these actions could be to target accurate ordering (accurate material requirements, realistic wastage rates), logistics planning (delivery strategy, adequate storage, efficient movement of materials to the workforce) or installation elements (efficient working and installation and storage of offcuts for reuse).			

4.0 Pre-construction

Step 4.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Forecast residual waste	<p>In addition to designing out waste at (Step 2.1), and estimating outline waste arisings (Step 3.1), it is required to forecast residual waste arisings before going to site.</p> <p>This final residual waste forecast is the last and most detailed waste forecast that is done before site mobilisation. Once this final waste forecast is completed, waste management and recovery options can be implemented to ensure the waste is recycled, reused or recovered.</p>	Standard	<p>Forecast waste according to general estimates, fulfilling requirement to identify each waste type expected to be produced in the course of the project.</p>	<p>WRAPs freely available Net Waste Tool allows you to enter simple project details and forecast likely waste arisings, together with suggesting waste reduction and segregation opportunities and recycled content material substitutions.</p> <p>The Net Waste Tool can be accessed here: http://nwtool.wrap.org.uk/</p>		
Forecast residual waste		Good	<p>Good practice relates to forecasting waste arisings at the detailed design stage. Refer to Step 3.1. Good practice for Step 4.1 relates to forecasting residual waste arisings in conjunction with the principal contractor and agreeing the waste reduction and recovery standards to be achieved on the project.</p>	<p>WRAP have produced a number of Model Procurement Requirements to help incorporate these requirements into prequalification questionnaires invitation to tender documents, and appointment contracts.</p> <p>The guidance can be found here: http://www.wrap.org.uk/construction/achieving_resource_efficiency/model_procurement_requirements/index.html</p>	Best Practice	
Forecast residual waste		Best	<p>Building on Good Practice, hold talks with the rest of the supply chain (waste management contractors, sub-contractors) to determine waste reduction and recovery actions for the project.</p>			

Step 4.2	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Management of Waste	This step relates to the efficient management of waste once it has been created on site. Step 4.2 which deals with the management of waste on site should be implemented in line with any targets identified in sections 1.0, 2.0 and 3.0 above. As noted above in Step 2.1, off-cuts should be stored safely on site for reuse.	Standard	Identify waste management action for each waste stream	WRAPs freely available Net Waste Tool allows you to enter simple project details and forecast likely waste arisings, together with suggesting waste reduction and segregation opportunities and recycled content material substitutions. The Net Waste Tool can be accessed here: http://nwtool.wrap.org.uk/ WRAP also provide guidance on developing and implementing a material logistics plan.	Best Practice	
		Good	Identify recycling and recovery options for each waste stream for which recycling and recovery is viable	The logistics plan guidance can be found here: http://www.wrap.org.uk/construction/construction_waste_logistics.html		
		Best	Maximise opportunities for resource efficiency through following the waste hierarchy (prevention, minimisation, reuse, recycling, recovery, disposal)	allows you to enter the postcode of your site and pin point waste management facilities and materials/products suppliers within a region or radius of your chosen distance. It can be found here http://www.bremap.co.uk/		

Step 4.3	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Training	It is a requirement that all site workers are trained on the Site Waste Management Plan, providing information on how it affects them. Training prospects should be seen as opportunities to engage with the supply chain and gain buy-in from them – as it will be the supply chain who will be able to significantly contribute to any project resource efficiency targets.	Standard	The principal contractor should provide training to every construction worker needed for the particular work to be carried out within the terms of the site waste management plan. This can be in the form of toolbox talks.	WRAP provide a wealth of background information on waste reduction and recovery, including guidance documents, case studies and best practice guides. General WRAP construction guidance can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/index.html	Best Practice	
		Good	Building on standard practice, provide bespoke training to all subcontractors and identify waste reduction actions where they can contribute.	WRAP also provide a short guidance note for small and medium sized contractors on reducing construction waste. It can be downloaded here: http://www.wrap.org.uk/document.htm?id=666Z		
		Best	Building on good practice and share experience from previous projects or sites. Use the training exercise to inform continual improvement.			

5.0 Construction

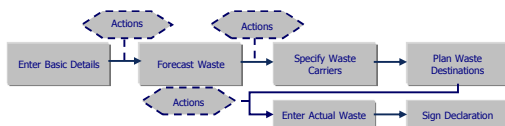
Step 5.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Responsibilities (on site)	Once the SWMP has been developed it must be implemented on site. This Step outlines how to assign responsibility for ensuring the SWMP is delivered.	Standard	Meet requirements for identifying the client, principal contractor and person drafting the Site Waste Management Plan.	WRAP have produced a number of Model Procurement Requirements to help incorporate these requirements into prequalification questionnaires and invitation to tender documents The guidance can be found here: http://www.wrap.org.uk/construction/achieving_resource_efficiency/model_procurement_requirements/index.html	Best Practice	
		Good	Waste champion is appointed for the whole site.			
		Best	Building on Good Practice, individuals and sub contractors should be made responsible for specific waste streams, with the waste champion holding these project members to account.			
Step 5.2	Space permitting, key waste streams should be segregated. The segregation scheme should include appropriate training, monitoring and enforcement with clear signage and using the National Colour Coding Scheme.	Standard Good Best	Meet requirement that all waste from the site is dealt with in accordance with the Environmental Protection Act and Environmental Protection (Duty of Care) Regulations. Before work starts on site consider layout and skip locations. Use segregated containers at the workforce. Ensure separate containers are provided for Hazardous Waste, material storage areas are clearly located and signed or arrange for just in time delivery and prevent double handling.	WRAP have produced a number of Model Procurement Requirements to help incorporate these requirements into prequalification questionnaires and invitation to tender documents The guidance can be found here: http://www.wrap.org.uk/construction/achieving_resource_efficiency/model_procurement_requirements/index.html	Best Practice	

Step 5.3	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Monitoring	Monitoring progress against the actions in the site waste management plan more often than every six months can inform ongoing site achievement of the planned waste reduction and recovery actions. It can be part on the live review process and inform continual improvement. Once data is collected, it will form a baseline against which clients can evaluate and improve on resource efficiency performance. Step 5.3 should therefore be linked with Step 6.2.	Standard	Monitor and update the Site Waste Management Plan not less than every six months	WRAP provide guidance on measurement and reporting on construction projects. It can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/reporting_portal.html	Best Practice	
		Good	Principal contractor to review the construction schedule and set appropriate project review and monitoring dates with the client.			
		Best	Building on Good Practice, review site progress against the Site Waste Management Plan and implement changes to revise site activities based on performance where necessary.			

Step 5.4	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
Reporting	Reporting is an integral part of the Site Waste Management Plan process. Good and best practice relate to recording and reporting waste arisings in increasing levels of detail. WRAP provide a method note that defines the standard by which the construction industry has agreed to record and report waste arisings. The link to this guidance is listed in the 'guidance'	Standard	Ensure the Site Waste Management Plan is kept at the site, and that the Plan is available for two years after completion of the construction project.	WRAP's Reporting Portal has been developed to allow the construction industry to report on its progress in implementing Site Waste Management Plans and record actual site achievements. It can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/reporting_portal.html	Best Practice	
		Good	Report waste generation, recovery and disposal arising by construction phase (construction, demolition and excavation).			
		Best	Report lessons learnt through the project, including the good and best practice levels achieved.			

6.0 Post-completion

Step 6.1	Explanation	Practice Level	How to achieve	Guidance available to help	Practice level targeted (please select)	Action (use to record more detail if you wish)
On-site project review	The on-site project review is an opportunity for the site project team to review their progress post completion. Good and best practice items relate to the process of continuous review and learning.	Standard	Meet requirements to compare Site Waste Management Plan forecast versus actual performance, and record any deviations from the Plan. Building on Standard Practice, review the Site Waste Management Plan to identify any improvements that could have been made (e.g. to improve waste reduction or recovery, or the accuracy of the forecast).	WRAPs National Reporting Portal has been developed to allow the construction industry to report on its progress in implementing Site Waste Management Plans and record actual site achievements. It can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/reporting_portal.html	Best Practice	
		Good				
		Best	Building on Good Practice, hold a post completion project team meeting to debrief and learn lessons from the Site Waste Management Plan process that can be used to inform future practice.			
Step 6.2	The corporate level review uses the SWMPs produced on individual sites to compare construction projects against company baseline performance. If a baseline does not exist, then the first project will become the baseline against which performance in future projects will be measured against.	Standard Good Best	Meet requirements to compare Site Waste Management Plan forecast versus actual performance, and record any deviations from the Plan. Record project performance in the following areas: cost savings achieved, total waste arisings, total waste to landfill, total waste reductions achieved and recycled content used. Use data collected in Step 6.1 standard practice to benchmark performance across your portfolio of projects, using the data to inform continual improvement. Using the data gathered and lessons learnt, set company policy on expected metrics (cost savings, waste arisings, waste reductions, total waste to landfill) for similar project types going forward. Integrate lessons learnt into corporate construction procedures.	WRAPs Reporting Portal has been developed to allow the construction industry to report on its progress in implementing Site Waste Management Plans and record actual site achievements. It can be found here: http://www.wrap.org.uk/construction/tools_and_guidance/reporting_portal.html	Best Practice	
Corporate level review						



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Tell me about this sheet

The Client and Principal Contractor Shall :
Develop and implement a Site Waste Management Plan (SWMP) in compliance with the Site Waste Management Plans Regulations 2008 No.314 and containing not less than the following information:

- the SWMP shall identify:
 - the Client;
 - the principal Contractor; and
 - the person who drafted it.
- the SWMP must describe the construction work proposed, including:
 - the location of the site; and
 - the estimated cost of the project.
- the SWMP must record any decision taken before the Plan was drafted on the nature of the project, its design, construction method or materials employed in order to minimise the quantity of waste produced on site.
- the SWMP must:
 - describe each waste type expected to be produced in the course of the project;
 - estimate the quantity of each different waste type expected to be produced; and
 - identify the waste management action proposed for each different waste type, including re-using, recycling, recovery and disposal.
- the SWMP must contain a declaration that the Client and the principal Contractor will take all reasonable steps to ensure that:
 - all waste from the site is dealt with in accordance with the waste duty of care in section 34 of the Environmental Protection Act 1990(3) and the Environmental Protection (Duty of Care) Regulations 1991(4); and
 - materials will be handled efficiently and waste managed appropriately
- update the SWMP when any waste is removed from site and state:
 - the identity of the person removing the waste;
 - the waste carrier registration number of the carrier;
 - a copy of, or reference to, the written description of the waste required by section 34 of the Environmental Protection Act 1990; and
 - the site that the waste is being taken to and whether the operator of that site holds a permit under the Environmental Permitting (England and Wales) Regulations 2007 or is registered under those Regulations as a waste operation exempt from the need for such a permit.
- as often as necessary to ensure that the Plan accurately reflects the progress of the project, and in any event not less than every six months:
 - review the Plan;
 - record the types and quantities of waste produced;
 - record the types and quantities of waste that have been:
 - re-used (and whether this was on or off site);
 - recycled (and whether this was on or off site);
 - sent for another form of recovery (and whether this was on or off site);
 - sent to landfill; or
 - otherwise disposed of; and
 - update the Plan to reflect the progress of the project.
- add the following to the SWMP within 3 months of the Works being completed:
 - confirmation that the Plan has been monitored on a regular basis to ensure that work progressed according to the plan and that the plan was updated in accordance with the Regulations;
 - a comparison of the estimated quantities of each waste type against the actual quantities of each waste type;
 - an explanation of any deviation from the Plan; and
 - an estimate of the cost savings that have been achieved by completing and implementing the Plan.
- ensure that the SWMP is kept:
 - at the site office, or
 - if there is no site office, at the site;
- ensure that every contractor knows where it is kept, and make it available to any contractor carrying out work described in the Plan;
- keep the SWMP for two years after the completion of the project at the principal Contractor's principal place of business or at the site of the project;
- ensure co-ordination of the work and co-operation among contractors at work during the construction phase;
- ensure so far as is reasonably practicable that every worker carrying out the construction work is provided with:
 - suitable site induction; and
 - any further information and training needed for the particular work to be carried out within the terms of the SWMP;
- make and maintain arrangements that will enable the principal Contractor and the workers engaged in the construction work to co-operate effectively in promoting and developing measures to ensure that any waste arising on site is managed within the terms of the SWMP and in checking the effectiveness of such measures;
- ensure, so far as is reasonably practicable, that waste produced during construction is re-used, recycled or recovered;
- take all reasonable steps to ensure that sufficient site security measures are in place to prevent the illegal disposal of waste from the site; and
- review, revise and refine the SWMP as necessary, to ensure that any changes in roles and responsibilities are clearly communicated to those affected."

		Compliance			
Pre-Construction	Client identified	Yes	Review		
	Principal contractor identified	Yes	Review		
	Draftee identified	Yes	Review		
		Compliance			
	Location of site defined	Yes	Review		
	Cost of project estimated	Yes	Review		
	Decisions taken before SWMP completed have been recorded	Yes	Review		
		Compliance			
	All waste types identified and quantities estimated	Yes	Review		
	Waste management actions identified	Yes	Review		
		Compliance			
	All waste from site is dealt with in accordance with relevant guidelines	No	Review		
	Materials handling identified	No	Review		
		Compliance			
Construction	All waste carriers identified	No	Review		
	Waste carrier registration numbers identified	No	Review		
	Written description of the waste as required by section 34 of the Environmental Protection Act 1990 identified	No	Review		
	All sites and relevant permits acquired and confirmation of site registrations acquired	No	Review		
Comments		Please Enter Compliance		No	
Comments		Please Enter Compliance		No	
Post-Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Post-Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No
Construction	Comments		Please Enter Compliance		No
	Comments		Please Enter Compliance		No

Additional Duties

Additional duties on the principal contractor

- The principal contractor must, so far as is reasonably practicable, ensure co-ordination of the work and co-operation among contractors at work during the construction phase.
- The principal contractor must ensure so far as is reasonably practicable that every worker carrying out the construction work is provided with-
 - (a) suitable site induction; and
 - (b) any further information and training needed for the particular work to be carried out within the terms of the site waste management plan.
- The principal contractor must make and maintain arrangements that will enable the principal contractor and the workers engaged in the construction work to co-operate effectively in promoting and developing measures to ensure that any waste arising on site is managed within the terms of the site waste management plan and in checking the effectiveness of such measures.
- The principal contractor must ensure, so far as is reasonably practicable, that waste produced during construction is re-used, recycled or recovered.
- Failure to comply with this paragraph is an offence.

Additional duties on the client

- The client must give reasonable directions to any contractor so far as is necessary to enable the principal contractor to comply with these Regulations.

Failure to comply with this paragraph is an offence.

Additional duties on both the client and the principal contractor

- Both the client and the principal contractor must review, revise and refine the site waste management plan as necessary, to ensure that any changes in respective roles and responsibilities are clearly communicated to those affected.
- Both the client and the principal contractor must take reasonable steps to ensure that sufficient site security measures are in place to prevent the illegal disposal of waste from the site.
- Failure to comply with this paragraph is an offence.

These Regulations require any person intending to carry out a construction project with an estimated cost greater than £300,000 to prepare a site waste management plan.

The plan must be updated in accordance with the Regulations, with different requirements depending on whether the cost of the project is greater than £500,000.

The Regulations are enforced by the Environment Agency and the local authority.

Breach of the Regulations is an offence punishable-

- (a) on summary conviction, by a fine not exceeding £50,000, or
- (b) on conviction on indictment, by a fine.

An impact assessment of the effect that this instrument will have on the costs of business and the voluntary sector is available on the Defra website.

Construction	Comments	Please Enter Compliance
		No
	Comments	Please Enter Compliance
		No
	Comments	Please Enter Compliance
		No

My targets

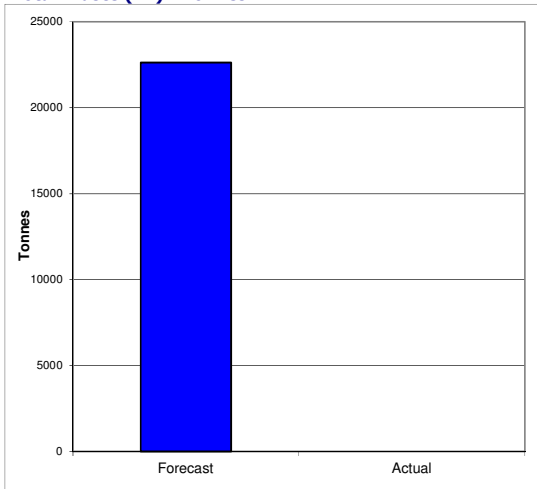
KPI	Target
Waste to landfill (Construction)	0t
Waste to landfill (Demolition)	0t
Waste to landfill (Excavation)	0t

KPI Report

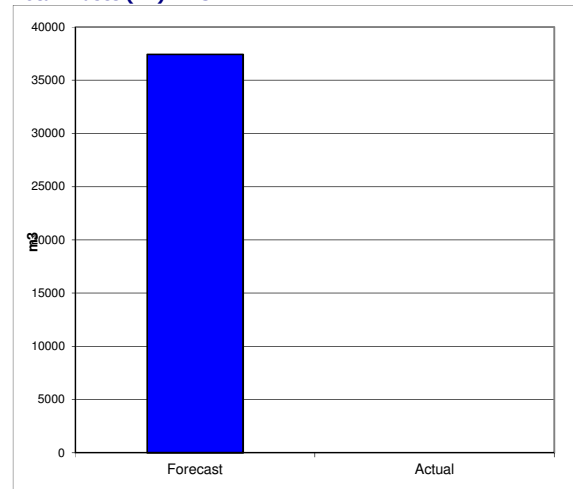
Select Metric :	Total
Select Phase :	All

	Forecast		Actual	
	m ³	Tonnes	m ³	Tonnes
Total Waste	37431.42	22625.67	0.00	0.00
Total Waste to landfill	2562.59	940.63	0.00	0.00
% Waste diverted from landfill	93%	96%	#DIV/0!	#DIV/0!
% Material reused on site	31%	63%	#DIV/0!	#DIV/0!

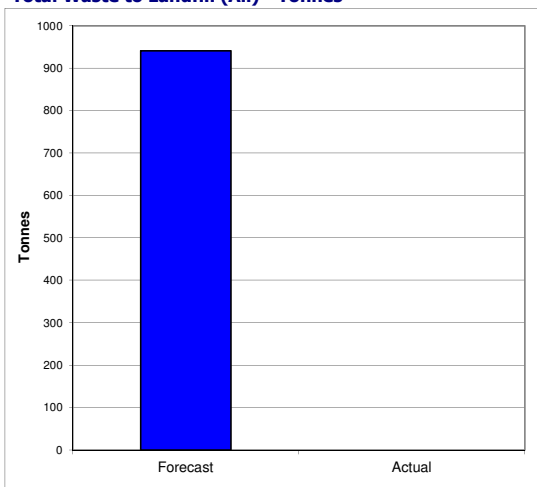
Total Waste (All) - Tonnes



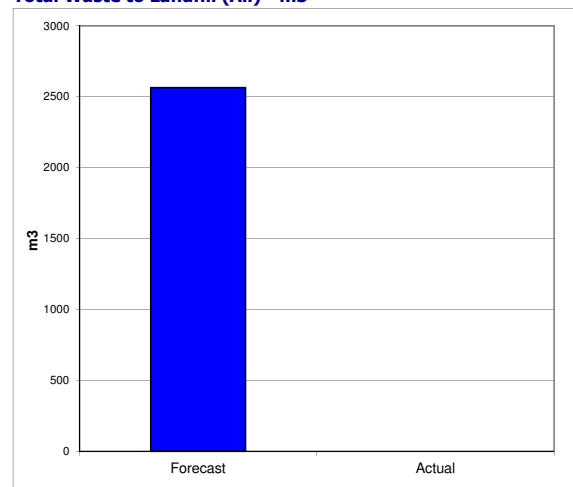
Total Waste (All) - m3



Total Waste to Landfill (All) - Tonnes



Total Waste to Landfill (All) - m3





7
Tell me about this sheet

View data in: tonnes

Reporting

Combined stages C,D and E

Construction

Demolition

Excavation

Combined stages C, D and E

	Forecast		Actual	
	m ³	Tonnes	m ³	Tonnes
Total Waste	37431.42	22625.67	0.00	0.00
Total Waste to landfill	2562.59	940.63	0.00	0.00
% Waste diverted from landfill	93%	96%	#DIV/0!	#DIV/0!
% Materials reused on site	31%	63%	#DIV/0!	#DIV/0!

Forecast/Actual Unit	Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)	
	F	A	F	A	F	A	F	A	F	A	F	A
	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£
Total	22,625.67	8,455.94	14,169.83	940.63	7,515.21							
Class												
Non Haz (Inert)	14,169.83		14,169.83									
Haz	249.70		249.70				62.42	187.27				
Non Haz (Non Inert)	8,206.14		8,206.14				878.20	7,327.93				
Assigned Waste Stream												
Inert - Soil & stones												
Non Haz (Non Inert) - Soil & stones												
Non Haz (Non Inert) - Dredgings												
Segregated Haz - Soil & stones												
Gypsum	1,720.28		1,720.28				86.01	1,634.26				
Metals	725.28		725.28					725.28			1,634.26	
Wood	1,705.02		1,705.02				85.25	1,619.77			725.28	
Packaging	1,534.76		1,534.76				76.74	1,458.02			1,619.77	
Inert - Building rubble	14,169.83		14,169.83								1,458.02	
Inert - Glass												
Mixed Hazardous - C&D waste	249.70		249.70				62.42	187.27			187.27	
Mixed C&D waste												
Segregated Haz Waste												
Other C&D segregated waste	2,520.81		2,520.81				630.20	1,890.60			1,890.60	
List of Waste (LOW) Code												
08 01 11*												
08 01 12*												
08 01 13*												
08 01 14												
08 01 18												
08 03 18												
13 01 12*												
13 01 13*												
13 05 01*												
13 05 03*												
13 05 06*												
13 07 01*												
14 06 01*												
14 06 02*												
14 06 03*												
14 06 04*												
14 06 05*												
15 01 01												
15 01 02												
15 01 03												
15 01 04												
15 01 05												
15 01 06	1,534.76		1,534.76									
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16 06 02*												
16 06 03*												
16 06 04												
16 07 08*												
16 10 01*												
17 01 01	6,775.02		6,775.02									
17 01 02	4,728.83		4,728.83									
17 01 03												
17 01 06*												
17 01 07	2,665.99		2,665.99									
17 02 01	1,705.02		1,705.02									
17 02 02												
17 02 03	642.09		642.09									
17 02 04*												
17 03 01*												
17 03 02												
17 03 03*												
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17 04 03												
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17 05 04												
17 05 05*												
17 05 06												
17 05 07*												
17 05 08												
17 06 01*												
17 06 02*												
17 06 04	734.66		734.66									
17 06 05*												
17 08 01*												
17 08 02	1,720.28		1,720.28									
17 09 01*												
17 09 02*												
17 09 03*	249.70		249.70									
17 09 04												
19 13 01*												
20 01 01												
20 01 08	991.26		991.26									
20 01 11												
20 01 21*												
20 01 23*												
20 01 25												
20 01 35*												
20 01 36	110.63		110.63									
20 01 99												
20 02 01												
20 03 01												
20 03 03												
20 03 04												
20 03 05												
20 03 07	42.17		42.17									
08 01 19												
13 01 11*												
13 02 08*												
16 05 07*												
10 11 03												
20 01 02												
20 01 39												

Forecast/Actual Unit	Re-used				Recovery of materials and wastes				Energy		
	off-site		on-site		Recycled		on-site		off-site		
	F	A	F	A	F	A	F	A	F	A	
Total											
Class											
Non Haz (Inert)											
Haz											
Non Haz (Non Inert)											
Inert - Soil & stones											
Non Haz (Non Inert) - Soil & stones											
Non Haz (Non Inert) - Dredgings											
Segregated Haz - Soil & stones											

