STEP 1: ADMINISTRATION AND PLANNING

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

Client	IDE Real Estate	
Principal contractor	To be appointed	
Owner of document	Royal HaskoningDHV on behalf of IDE Real Estate.	
Project title	Holborn - 8 - 10 Southampton Row and 1 Fisher Street	
Project reference	Royal HaskoningDHV Project Reference: PB6071	
Project location	8 - 10 Southampton Row and 1 Fisher Street , Holborn	
	Town	Holborn
	Postcode	WC1B 4AE
Project value (£)	1000000	

Sector	Civil Engineering

Start date	01/01/2018	dd/mm/yy
Completion date	31/10/2019	dd/mm/yy

Type of construction	The development proposals seek to covert the 8-10 Southampton Row building from Crossrail site offices to a 120 bedroom hotel and include the construction of a new building to rear of 8-10 Southampton Row, over the Crossrail shaft. The current building on the Site (8-10 Southampton) has a gross internal area of 1,544m2, which will increase to 5,162m2 with the development of a new purpose-built hotel element to the rear. The Proposed Development comprises: • Conversion and restoration of 8-10 Southampton Row (back) to a 120 bedroom hotel, including restaurant/ bar at first floor; • An 8-storey extension to 8-10 Southampton Row to the rear taking in 1 Fisher Street; • A maximum height of 29.8m above ground; • An entrance from Southampton Row (northwest corner) serving the hotel and a secondary access located at the building's southwest corner, linking to the restaurant at first floor; • Back of house areas at ground floor in the link between the retained and new build elements; • A second back of house area is to be provided at the rear (east) of the new build element; • A service entrance from Catton Street; • A service bay on Catton Street; • Taxi drop-off on Fisher Street, close to the hotel entrance; and • Cycle parking to meet policy standards.

Footprint (m^2): structure		Carriageway or pipeline length (m) (if appropriate)	
Footprint (m^2): site (if different)	750	Gross Internal Floor Area	5102

Position	Name	Contact Details
Client	John Mac Crossan	1 Quality Court Chancery Lane London WC2A 1HR T: +44 (0) 20 3735 7244 M: +44 7834 869 206 E: john@iderealestate.com www.iderealestate.com
Principal Contractor	Not yet appointed	TBC
Site Waste Management Plan Drafter	Gary Bower Principal Consultant - Royal HaskoningDHV	Associate Director Industry & Buildings - Europe T: +44 (0) 1733 336586 | Mobile: +44 (0) 7789 551 594 | E: gary.bower@rhdhv.com
Others (not legally required)		
Client WM Representative (if applicable)	Not yet appointed	TBC
Project Manager	Not yet appointed	TBC
Waste Broker	Not yet appointed	TBC
Waste Management Coordinator/Champion	Not yet appointed	TBC
Design Coordinator	Not yet appointed	TBC
Document Controller / Secretary	Not yet appointed	TBC

Document control

Version	Date	Person responsible for the SWMP	Company and position	Project Stage
Draft version 0.1	03/05/2017	Gary Bower	Principal Consultant - Royal HaskoningDHV	Preparation, pre-construction, pre-planning decision

Declaration

The person in charge of the project and the principal contractor will take all reasonable steps to ensure that -

(a) 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 and the Waste (England and Wales) Regulations 2011; and

(b) materials will be handled efficiently and waste managed appropriately

Person in charge of project (Client)	
Signed by:	
Print Name:	
Organisation:	
Position:	
Date:	
Principal contractor	
Signed by:	
Print Name:	
Organisation:	
Position:	
Date:	

STEP 2: ACTION LOG

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

Date	Organiser	Attendance Record (name & company)	Notes taken by	List of Actions

Page Number:
(Expand as required)

STEP 3: KPIs AND TARGETS

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

Waste to Landfill Headline Metrics	Base Estimate	Actual
tonnes of waste	617	0
tonnes of waste to landfill	47	0

KPI	Applicability	KPIs		Target
(Remove suggested KPIs if not appropriate)		Base Estimate	Actual	
Waste Generation				
By Known Waste Volume				
m^3/£100,000 project value	All projects	0.000573	0.000000	
m^3/m2 development area	Development	0.7640	0.0000	
By Known Waste Tonnage				
Tonnes/£100,000 project value	All projects	0.000617	0.00000000	
Tonnes / m2 development area	Development	0.8227	0.0000	
Reuse, Recycling and Recovery rates				
By Volume (m^3)				
Percentage waste reused on site	All projects	42.24%	#DIV/0!	
Percentage waste reused off site	All projects	0.00%	#DIV/0!	
Percentage waste recycled on site	All projects	0.00%	#DIV/0!	
Percentage waste recycled off site	All projects	24.06%	#DIV/0!	
Percentage waste recovered on site	All projects	0.00%	#DIV/0!	
Percentage waste recovered off site	All projects	25.41%	#DIV/0!	
Total reused , recycled & recovered	**All Projects**	**91.71%**	**#DIV/0!**	
By Tonnes				
Percentage waste reused on site	All projects	48.95%	#DIV/0!	
Percentage waste reused off site	All projects	0.00%	#DIV/0!	
Percentage waste recycled on site	All projects	0.00%	#DIV/0!	
Percentage waste recycled off site	All projects	13.57%	#DIV/0!	
Percentage waste recovered on site	All projects	0.00%	#DIV/0!	
Percentage waste recovered off site	All projects	29.34%	#DIV/0!	
Totals	**All projects**	**91.86%**	**#DIV/0!**	
Diversion of waste from landfill and other Disposal Options				
By Volume (m^3)				
Percentage of total waste diverted from landfill and other disposal options	All projects	91.71%	#DIV/0!	
By Tonnes				
Percentage of total waste diverted from landfill and other disposal options	All projects	91.86%	#DIV/0!	
Use of reused and recycled materials within the construction				
Total recycled content by material value	All projects		#DIV/0!	
Other KPIs				
To be inserted by the user as appropriate				

STEP 4: DESIGN MEASURES

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

Note: To Convert between Tonnes and Cubic Metres the WRAP recommended conversion factors have been used
These are provided in 'A guide to volume to mass conversion factors and List of Waste categories used within WRAP's tools ' (http://www.wrap.org.uk/sites/files/wrap/Conversion%20factor%20guide%20for%20WRAP%20Tools.pdf)

Site Activity / Sub-Contractor Workplace	Primary Waste Stream	Opportunities for waste reduction by design	Implemented (If not, why?)	Quantified reductions in waste (m^3)	Quantified reductions in waste (tonnes)	Commercial Rate for landfill disposal (£/m^3)	Commercial Rate for landfill disposal (£/t)	Cost Saving by design
Design								
Excavation works - non hazardous material	17 05 04 soil and stones other than those mentioned in 17 05 03	Reuse of excavated material on site		180.80	226.00	125.00	100.00	£22,600
Excavation works - inert material	17 01 01; 17 01 02; 17 01 07	Reuse on site in accordance with the requirements of the Aggregates Quality Protocol		76.52	95.00	14.88	12.00	£1,140
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
								£0
Totals:				**257**	**321**			£23,740

STEP 5: RESPONSIBILITY FOR WASTE MANAGEMENT

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR

Site Activity / Sub-Contractor Workplace	Primary Waste Stream	Applicable EWC Codes	Waste Management Responsibility	Relevant Specification/Contract Clauses for Waste Management

STEP 6: PLANNING REUSE AND RECYCLING

Project Title: **8 - 10 Southampton Row and 1 Fisher Street - SWMP**

SUMMARY	CONSTRUCTION WORKS	
Destination	**volume (m^3)**	**tonnes**
Re-used On Site	242.01	302.00
Re-Used Off Site	0.00	0.00
Recycled On Site	0.00	0.00
Recycled Off Site	137.87	83.75
Other Recovery off Site	0.00	0.00
Other Recovery on Site	145.57	181.05
Sent to Landfill for Disposal	46.52	49.20
Otherwise Disposed of	1.00	1.00
TOTAL	572.97	617.00

Waste Category & Type	EWC Code	Estimated Quantity prior to management		Cost of waste disposal to landfill			Forecast provided by	Work packages likely to produce waste	Primary waste destination	Estimated Quantity		Secondary waste destination	Estimated Quantity		Management options	Legal requirements	Person responsible	Check Totals	
Construction Works																			
Insert line / Delete line Inert Waste		(m^3)	(tonnes)	£/m^3	£/tonnes	Cost forecast			Use Drop downs	(m^3)	(tonnes)	Use Drop downs	(m^3)	(tonnes)				(m^3)	(tonnes)
Mixed Construction materials Inert mix of concrete, tiles, bricks and ceramics	17 01 07	49.19	61.00	£14.88	£12.00	£732.00		Damaged or off specification construction materials; mixed inert waste	Re-used On Site	39.35	48.80	Recycled Off Site	9.84	12.20	The hardcore is assumed to be suitable for reuse within the Development - it is likely to be retained as sub-base	Compliance with the Aggregates Quality Protocol	Contractor		
Total concrete waste	17 01 01	17.32	22.00	£15.24	£12.00	£264.00		segregated concrete waste	Re-used On Site	13.86	17.60	Recycled Off Site	3.46	4.40	The hardcore is assumed to be suitable for reuse within the Development - it is likely to be retained as sub-base	Compliance with the Aggregates Quality Protocol	Contractor		
Waste Bricks	17 01 02	10.00	12.00	£14.40	£12.00	£144.00		waste bricks	Re-used On Site	8.00	9.60	Recycled Off Site	2.00	2.40	The hardcore is assumed to be suitable for reuse within the Development - it is likely to be retained as sub-base	Compliance with the Aggregates Quality Protocol	Contractor		
Tiles and Ceramics	17 01 03	1.69	1.00	£7.08	£12.00	£12.00		segregated waste tiles & ceramics	Recycled Off Site	1.69	0.80	Recycled Off Site	0.00	0.20	The hardcore is assumed to be suitable for reuse within the Development - it is likely to be retained as sub-base	Compliance with the Aggregates Quality Protocol	Contractor		
						£0.00													
						£0.00													
Sub TOTAL		**78.21**	**96.00**			**£1,152.00**				**62.91**	**76.80**		**15.30**	**19.20**					
Insert line / Delete line Non-hazardous waste		(m^3)	(tonnes)	£/m^3	£/tonnes	Cost forecast			Use Drop downs	(m^3)	(tonnes)	Use Drop downs	(m^3)	(tonnes)				(m^3)	(tonnes)
Timber & damaged Fencing	17 02 01	20.59	7.00	£ 10.20	£30.00	£210.00		Damaged fencing or other wood material arising from the construction works	Recycled Off Site	20.59	7.00				All wood waste will be recycled off-site at a wood recycling facility	Recycling facility requires an environmental permit	Contractor		
Mixed Packaging & empty drums	15 01 06	14.29	3.00	£ 1.89	£9.00	£27.00		Waste packaging will be sent off-site for recycling	Recycled Off Site	14.29	3.00				Waste packaging will be segregated according to type and sent to a material recycling facility for recycling If possible, packaging to be returned to	Recycling facility requires an environmental permit	Contractor		
Canteen/office/ad-hoc waste Contractor general waste	20 03 01	9.52	2.00	£ 1.89	£9.00	£18.00		Waste created by contractors at the construction site compound	Recycled Off Site	4.76	1.00	Sent to Landfill for Disposal	4.76	1.00	On-site segregation should ensure that the majority of dry recyclables (paper, card, plastic and metal) can be collected separately and sent to appropriate recycling facilities. However, some will require disposal (approximately 50% of total arisings)	Off-site facility requires an environmental permit	Contractor		
Aqueous Liquids,	16 10 02	1.00	1.00	£50.00	£50.00	£50.00		Aqueous liquid waste	Otherwise Disposed of	1.00	1.00				Aqueous liquid waste will be sent off-site for recycling	The treatment facility requires an environmental permit	Contractor		
Flytipped: tyres	16 01 03	0.00	0.00	£47.00	£100.00	£0.00		**Removal of fly-tipped tyres** *****Assumed not required*****	Otherwise Disposed of	0.00	0.00				tyres cannot be landfilled, therefore other routes should be found		Contractor		
Flytipped: mixed C&D waste	17 09 04	0.00	0.00	£87.00	£100.00	£0.00		**Removal of Fly-tipped non-hazardous construction & demolition** waste *****Assumed not required*****	Sent to Landfill for Disposal	0.00	0.00				The fly-tipped material will be disposed	Carry out analysis on the material to demonstrate that it is non-hazardous	Contractor		
Trees, bushes, shrubs & other vegetation	20 02 01	0.00	0.00	£9.12	£24.00	£0.00		Site clearance of trees, shrubs, bushes grass and other vegetation	Re-used On Site	0.00	0.00	Recycled Off Site	0.00	0.00	Some of the trees and shrubs that will need to be removed can be chipped and reused on site as mulch for landscaping. The remainder will be removed from site for recycling	The recycling facility must hold an environmental permit.	Contractor		
Excavated material retained for on-site use Non-hazardous	17 05 04	180.80	226.00	£125.00	£100.00	£22,600.00		Excavations associated with any on-site cut and fill exercise; or reuse of excavated material for construction or landscaping **Material retained on-site for use**	Re-used On Site	180.80	226.00				Excavated arisings assumed to be non-hazardous It is proposed to be mainly retained on-site for reuse within the development, however a proportion of the material will not be suitable for use.	Re-use according to the CL:AIRE Development Industry Code of Practice	Contractor		
Excavated material surplus to requirements Non - Hazardous	17 05 04	180.80	226.00	£125.00	£100.00	£22,600.00		Excavations associated with any on-site cut and fill exercise; or reuse of excavated material for construction or landscaping **non-hazardous material to be sent off-site for recovery or disposal**	Other Recovery off Site	144.64	180.80	Sent to Landfill for Disposal	36.16	45.20	80% of this material (40% of cut & fill material) is assumed to be recovered off site; 20% of this material (10% of cut & fill material) is assumed to unsuitable or surplus to recovery and would be landfilled	All facilities must hold an environmental permit Basic characterisation data is required for all material sent to landfill in accordance with WAC.	Contractor		
Segregated Plastics	15 01 02	8.70	2.00	£5.98	£26.00	£52.00		Segregated plastics from dry recyclable collection	Recycled Off Site	8.70	2.00				Segregated plastics can be sent to a specialist plastics reprocessor. There is potential for a fee to be paid for this material if the waste is of sufficient quality.	The recycling facility must hold an environmental permit.	Contractor		
Metals	17 04 07	7.14	3.00	-£21.00	-£50.00	-£150.00		Segregated metal waste	Recycled Off Site	7.14	3.00				has a positive value and can be sold to a metal recycling facility	The recycling facility must hold an environmental permit.			
Insulation	17 06 04	8.00	2.00	£33.00	£100.00	£200.00		waste insulation materials	Recycled Off Site	4.00	1.00	Sent to Landfill for Disposal	4.00	1.00	Some waste insulation can be recycled or returned to manufacturers who are involved in take back schemes. Contaminated insulation is likely to be landfilled.				
Gypsum	17 08 02	9.09	3.00	£30.00	£120.00	£360.00		waste gypsum - should be segregated to encourage recycling	Recycled Off Site	9.09	3.00				Gypsum-only skips should be used on site to store segregated gypsum waste. There is an active market for recycling gypsum due to problems associated with disposal.				
Floor coverings - soft	20 01 11	3.70	1.00	£7.02	£26.00	£26.00		waste carpet and floor tiles - unlikely to be recyclable *****Assumed not required*****	Recycled Off Site	2.78	0.75	Other Recovery off Site	0.93	0.25	There is an active carpet recycling market in the UK, to recover the carpet fibres. Otherwise, carpet can be processed into fuel for Energy from waste facilities due to its high calorific value.				
Asphalt, bitumen and tarmac	17 03 02	6.10	5.00	£82.00	£100.00	£500.00		waste surface planings	Recycled Off Site	6.10	5.00				This will be sent to an aggregates or materials recycling facility to be sorted.				
Mixed C&D waste not otherwise specified	17 09 04	42.53	37.00	£87.00	£100.00	£3,700.00		un-segregated miscellaneous construction and demolition waste	Recycled Off Site	42.53	37.00				This will be sent to an aggregates or materials recycling facility to be sorted.	The recycling facility must hold an environmental permit.			
						£0.00													
						£0.00													
						£0.00													
						£0.00													
						£0.00													
Sub TOTAL		**492.26**	**518.00**			**£50,193.00**				**446.41**	**470.55**		**45.85**	**47.45**					
Insert line / Delete line Hazardous waste		(m^3)	(tonnes)	£/m^3	£/tonnes	Cost forecast			Use Drop downs	(m^3)	(tonnes)	Use Drop downs	(m^3)	(tonnes)				(m^3)	(tonnes)
Flytipped: asbestos sheeting & construction materials contaminated with asbestos	17 06 05	0.00	0.00	£42.16	£136.00	£0.00		**Removal of Fly-tipped non-hazardous construction & demolition** waste **containing asbestos**	Sent to Landfill for Disposal	0.00	0.00				Landfill	Must carry out testing to ensure that the material meets the stable non-reactive hazardous Waste Acceptance Criteria before it can be landfilled in a SNRHW class of landfill.	Contractor		
Hazardous miscellaneous excavation and construction waste Soils excavated as part of the cut and fill exercise surplus to requirements hazardous	17 05 03	1.6	2.0	£143.75	£115.00	£230.00		Potential hazardous excavations and other source of hazardous waste from site activity	Sent to Landfill for Disposal	1.60	2.00				Could be sent to a soil treatment facility to avoid landfill disposal (depending upon the type and degree of contamination).This will facilitate the eventual recovery of some of the soil. However, volume assumed too low for this to be cost-effective, therefore, landfill assumed	Waste classification testing must be carried out. In addition, testing is required to ensure that the material meets the hazardous Waste Acceptance Criteria before it can be landfilled in a hazardous class of landfill.	Contractor to arrange testing		
Waste oils	13 02 08	0.9	1.0	£55.56	£50.00	£50.00		removal of waste oils for recycling	Recycled Off Site	0.90	1.00								
						£0.00													
						£0.00													
						£0.00													
Sub TOTAL		**2.50**	**3.00**			**£280.00**				**2.50**	**3.00**		**0.00**	**0.00**					
TOTAL		**572.97**	**617.00**			**£51,625.00**				**511.82**	**550.35**		**61.15**	**66.65**					

STEP 7: REGISTER OF LICENCES & PERMITS

TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR

Project Title: **8 - 10 Southampton Row and 1 Fisher Street - SWMP**

Waste carrier			
Name	Date checked with Environment Agency	Waste Carrier registration Number	Expiry Date

Waste management Facility					
Name & address + postcode	Type of facility	Percentage recycled	Date checked with Environment Agency	Permit / Licence / Exemption Number	Location of relevant documentation, e.g. WTN

STEP 9: CONSTRUCTION WASTE REGISTER

TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

UPLOAD FORECAST DATA
This should only be used once, before starting on site.
Warning!
Do not use this button after waste data has begun to be captured.

This sheet is unsuitable for printing

	Material movements >>>>>>>>>>>>					
	1	2	3	4	5	6
Waste destination						
Date of movement						
Waste Carrier						
Destination						
Recovery rate	0%	0%	0%	0%	0%	0%
Actual Cost						

Base forecast		Revised forecast	
Date created		Date revised	

Materials	EWC Code	Forecast quantities		Forecast quantities		Actual quantity >>>>>>>>>>>>>>>					
		m³	tonnes	m³	tonnes	Total	Total	Total	Total	Total	Total
Inert						0	0	0	0	0	0
Non Hazardous											
Hazardous											
Other Materials											

STEP 11: OVERALL RECYCLED CONTENT

Project Title: **8 - 10 Southampton Row and 1 Fisher Street - SWMP**

TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR

WRAP recommends using the "Net Waste tool" to identify RC data
See http://nwtool.wrap.org.uk/

	Material	Material Reused/recycled on Site	Materials imported to site	Building products	Quantity		Recycled content by mass/ volume	Cost		Material value	Recycled material value	Recycled content by material value
	Description	Tick Box	Tick Box	Tick Box	Vol (m^3)	Mass (tonne)	%	£/m^3	£/tonne	(£)	(£)	%
Bulk materials												
Use of recycled materials in design										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
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										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
Totals					**0**	**0**				**£ -**	**£ -**	**#DIV/0!**
Building Products												
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
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										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
										£ -	£ -	#DIV/0!
Totals					**0**	**0**				**£ -**	**£ -**	**#DIV/0!**
						Total material value (recorded materials)				**£ -**		
						Total recycled material value				**£ -**		
						Total recycled content by material value				**#DIV/0!**		

STEP 12: IMPLEMENTATION

TO BE COMPLETED BY THE PRINCIPAL CONTRACTOR/CLIENT

Project Title: **8 - 10 Southampton Row and 1 Fish**

	Yes	No
Client Checks (Additional Duties Legal Requirements)		
1) The Client must give reasonable directions to any contractor so far is as necessary to enable the principal Contractor to comply with the regulations		
Principal Contractor Checks (Additional Duties Legal Requirements)		
2) Must ensure that so far as reasonably practical co-ordination of the work, and co-operation among contractors at work during the construction phase		
3) Must ensure that so far as reasonably practical every worker carrying out construction work is provided with (a) suitable site induction		
4) Must ensure that so far as reasonably practical every worker carrying out construction work is provided with (b) any further information and training needed for the particular work to be carried our within the terms of the site waste management plan		
5) Must make and maintain arrangements which will enable the principal contractor and workers engaged in construction work to co-operate effectively in promoting and developing measures to ensure any waste arising on site is managed within the terms of the SWMP and in checking the effectiveness of such measures.		
6) Must ensure that so far as reasonably practical that waste produced during construction is reused, recycled or recovered.		
Client & Principal Contractor Checks (Additional Duties Legal Requirements)		
7) Have the client and principal contractor reviewed revised and refined the site waste management plan as necessary, and ensured that any changes in respective roles and responsibilities are clearly communicated to those effected?		
8) Have the Client and Principal Contractor taken reasonable steps to ensure sufficient site security measures are in place to prevent the illegal disposal of waste?		
Principal Contractor Checks (Recommended)		
9) Have terms and commercial rates been agreed with Waste management (WM) contractor(s)?		
10) Have data reporting procedures been agreed with WM contractor(s)?		
11) For off site WM or disposal are all the waste destination details verified?		
12) Has a waste segregation / collection area been prepared?		
13) Has the WM area been adequately sign posted?		
14) Has a WM planning meeting been set?		
15) Has the WM document control / filing system been set up?		
16) Have all necessary staff and contractors read and signed the Site Waste Management Plan SWMP?		
17) Have the waste management targets / KPIs been set?		
18) Has the SWMP been approved by the Project Manager?		

Comments / Further Actions:

Signed by Client:	
Position:	
Date:	
Signed by Principal Contractor:	
Position:	
Date:	
Signed by Client:	
Position:	
Date:	
Signed by Principal Contractor:	
Position:	
Date:	

ADD ROWS AS REQUIRED

STEP 13: DECLARATION

Project Title: **8 - 10 Southampton Row and 1 Fisher Street - SWM**

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 this regulation Required for all projects	
Signed by:	
Organisation:	
Position:	
Date:	

	Explanation of any deviation from the plan. Required for all projects
1	
2	
3	
4	
5	
6	
7	

	Where relevant, drawing on any lessons learnt, an action plan to address these for the next project
1	
2	
3	
4	
5	
6	
7	

	Base Estimate	Actual	Current Target
Waste Generation **By Known Waste Volume**			
m^3/£100,000 project value	0.000573	0.000000	0.00
m^3/m carriageway or pipeline length	0.763958	0.000000	0.00
By Known Waste Tonnage			
Tonnes/£100,000 project value	0.000617	0.000000	0.00
Tonnes/m carriageway or pipeline length	0.822667	0.000000	0.00
Reuse, Recycling and Recovery rates **By Volume (m^3)**			
Percentage waste reused on site	42.24%	#DIV/0!	0.00%
Percentage waste reused off site (to other sites)	0.00%	#DIV/0!	0.00%
Percentage waste recycled off site	24.06%	#DIV/0!	0.00%
Total reused and recycled	**91.71%**	**#DIV/0!**	**0.00%**
By Tonnes			
Percentage waste reused on site	48.95%	#DIV/0!	0.00%
Percentage waste reused off site (to other sites)	0.00%	#DIV/0!	0.00%
Percentage waste recycled off site	13.57%	#DIV/0!	0.00%
Totals	**91.86%**	**#DIV/0!**	**0.00%**
Diversion of waste from landfill and other Disposal Options **By Volume (m^3)**			
Percentage of total waste diverted from landfill and other disposal options	91.71%	#DIV/0!	0.00%
By Tonnes			
Percentage of total waste diverted from landfill and other disposal options	91.86%	#DIV/0!	0.00%
Use of reused and recycled materials within the construction			
Total recycled content by material value		#DIV/0!	0.00
Other KPIs			
	0.00	0.00	0.00
	0.00	0.00	0.00
	0.00	0.00	0.00

STEP 10: WASTAGE SUMMARY

Project Title: 8 - 10 Southampton Row and 1 Fisher Street - SWMP

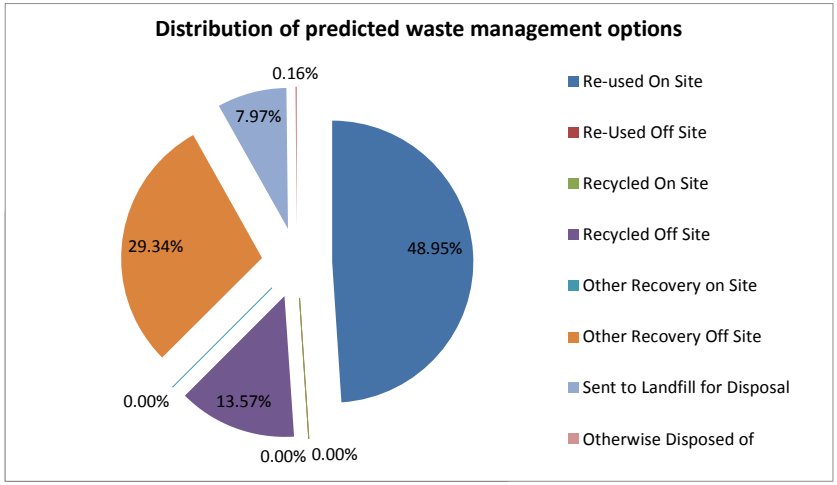
Base Forecast

SUMMARY	CONSTRUCTION WORKS	
Destination	**volume (m^3)**	**tonnes**
Re-used On Site	242	302
Re-Used Off Site	0	0
Recycled On Site	0	0
Recycled Off Site	138	84
Other Recovery on Site	0	0
Other Recovery Off Site	146	181
Sent to Landfill for Disposal	47	49
Otherwise Disposed of	1	1
TOTAL	573	617
Cost Forecast	£51,625	

Revised forecast totals	0	0

Actual data

SUMMARY	CONSTRUCTION WORKS	
Destination		m^3 or t
Select a unit		
Re-used On Site	0	tonnes
Re-Used Off Site	0	tonnes
Recycled On Site	0	tonnes
Recycled Off Site	0	tonnes
Other Recovery on Site	0	tonnes
Other Recovery Off Site	0	tonnes
Sent to Landfill for Disposal	0	tonnes
Otherwise Disposed of	0	tonnes
TOTAL	0	tonnes
Actual Costs	£0	



Project assumptions:	**Type of material**	**Tonnes**	**Comments**
Total earthworks (conservative estimate - maximum)	**assumed to comprise soil & stones and inert material**	**452**	**Value obtained from BRE data as presented in the Waste Assessment Report**
Total excavated Non-hazardous	17 05 04 soil and stones other than those mentioned in 17 05 03	452.00	
Excavated material retained for on-site use Non-hazardous	17 05 04 soil and stones other than those mentioned in 17 05 03	226.00	**Assumed 50% reuse of excavated material on site - this can be changed if required.**
Excavated material surplus to requirements Non - Hazardous	17 05 04 soil and stones other than those mentioned in 17 05 03	226.00	**Assumed 50% surplus excavated material - look for potential off-site recovery opportunities in line with the waste hierarchy 80% of this material (40% of cut & fill material) is assumed to be recovered off site; 20% of this material (10% of cut & fill material) is assumed to unsuitable or surplus to recovery and would be landfilled**
Hazardous miscellaneous excavation and construction waste Soils excavated as part of the cut and fill exercise surplus to requirements hazardous	17 05 03* soil and stones containing hazardous substances	2.00	**Currently set to arbitrary value from BRE data in the Waste Assessment Report- *note total from BRE report includes other haz waste (waste oils) value can be adjusted following any Site Investigation data used to classify potential hazardous waste arisings**
Haul road/access track		0	Assumed all haul roads / access tracks will use current access arrangements Therefore, no excavations for access.
Topsoil strip	17 05 04 soil and stones other than those mentioned in 17 05 03	0	No topsoil strip assumed due to nature of current facility

Site compound - preparation & construction			**0**	Assumed that no excavation is required for the preparation of a site compound due to nature of current facility
Biodegradable material				
Trees, bushes, shrubs & other vegetation	tonnes	20 02 01 biodegradable waste	0	No vegetation within the proposed development.
Inert construction waste				
Total concrete waste		17 01 01 concrete	22.00	Value obtained from BRE data as presented in the Waste Assessment Report
Concrete binders		17 01 01 concrete	2.00	Assumed all inert material will be recycled 80% onsite use, 20% offsite use Value obtained from BRE data as presented in the Waste Assessment Report
Concrete		17 01 01 concrete	20.00	Assumed all inert material will be recycled 80% onsite use, 20% offsite use Value obtained from BRE data as presented in the Waste Assessment Report
Waste Bricks		17 01 02 bricks	12.00	Assumed all inert material will be recycled 80% onsite use, 20% offsite use Value obtained from BRE data as presented in the Waste Assessment Report

Mixed Construction materials Inert mix of concrete, tiles, bricks and ceramics	tonnes	17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	61.00	Value obtained from BRE data as presented in the Waste Assessment Report Assumed all inert material will be recycled 80% onsite use, 20% offsite use
Tiles and Ceramics		17 01 03 tiles and ceramics	1.00	Value obtained from BRE data as presented in the Waste Assessment Report Assumed all inert material will be recycled 80% onsite use, 20% offsite use
Other Non-hazardous waste				
Asphalt, bitumen and tarmac		17 03 02 bituminous mixtures other than those mentioned in 17 03 01	5	value taken from waste assessment report recycle off-site
Canteen/office/ad-hoc waste Contractor general waste		20 03 01 mixed municipal waste	2.00	value taken from waste assessment report recycle or recover off-site - residual waste may require landfill if no suitable energy from waste facilities are available
Floor coverings - soft		Carpet 20 01 11 textiles	1	value taken from waste assessment report recycle off-site
Gypsum		17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01	3	value taken from waste assessment report recycle off-site
Insulation		17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03	2	value taken from waste assessment report recycle off-site

Aqueous Liquids,		16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01	1.00	value taken from waste assessment report recycle off-site
Metals		17 04 07	3.00	
Mixed Packaging & empty drums	tonnes	15 01 06 mixed packaging	3.00	value taken from waste assessment report recycle off-site
Segregated Plastics		15 01 02	2.00	value taken from waste assessment report recycle off-site
Timber & damaged Fencing	tonnes	17 02 01 wood	7.00	value taken from waste assessment report recycle off-site
Mixed C&D waste not otherwise specified		17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	37.00	value taken from waste assessment report for unspecified mixed waste offsite disposal
Other hazardous waste				
Waste oils		13 02 08* other engine, gear and	1	**Currently set to arbitrary value from BRE data in the Waste Assessment Report-** ***note total from BRE report includes other haz waste (waste soils)**
Flytipped material				
Flytipped: tyres		16 01 03 end-of-life tyres	0	Tyres are frequently fly-tipped Value has been set at zero assuming that no tyres have been flytipped in the project area due to secure site offsite disposal

Flytipped: 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	0	asbestos-containing construction/demolition waste is frequently fly-tipped Value has been set at zero assuming that none has been flytipped in the project area due to secure site offsite disposal
Flytipped: asbestos sheeting & construction materials contaminated with asbestos	17 06 05* construction materials containing asbestos	0	construction/demolition waste is frequently fly-tipped Value has been set at zero assuming that no C&D waste been flytipped in the project area due to secure site offsite disposal