

ROYAL ARSENAL RIVERSIDE THE ROPEYARDS

PLOTS D & K

SITE WASTE MANAGEMENT PLAN

To Support a Reserved Matters Application



MARCH 2024



Site Waste Management Plan

Royal Arsenal Riverside, The Ropeyards, Plots D &K

Iceni Projects Limited on behalf of Berkeley Homes (East Thames) Ltd

March 2024

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1. INTRODUCTION

- 1.1 Iceni Projects Ltd was commissioned by Berkeley Homes (East Thames) Ltd (the Applicant) to produce a Site Waste Management Plan (SWMP) to support the Reserved Matters Application (RMA) for Royal Arsenal Riverside, The Ropeyards, Plots D &K. The purpose of this SWMP is to set out how construction and excess material waste will be managed by the Applicant in relation to the redevelopment of the site, and has been based on the information available at the time of writing. This document provides a summary of:
 - How the Applicant has developed the SWMP during the design stage.
 - How waste will be managed on site in line with Duty of Care legislation.
 - The Applicant's requirements for training on waste management issues.
 - The Applicant's responsibilities for updating monitoring and reporting volumes of waste.
- 1.2 It is anticipated that this SWMP will be a living document, that is updated with the relevant information as and when it becomes available through each stage of the project.
- 1.3 Prior to the commencement of construction works, the Applicant is responsible for preparing a SWMP. At the pre-construction stage, the Applicant should enter the following information into the plan, where practicable:
 - Project Details and Duty Holders.
 - Objectives relevant to the project.
 - Inception and Design Decisions taken to eliminate and reduce waste generation.
 - Proposed Waste Management Actions to reduce the amount of waste generated.
 - Completion of a waste data sheet at the tender stage, describing the type and quantity of waste likely to be generated throughout the project and how that waste will be treated, reused, recycled, etc.
- 1.4 When the Principal Contractor is appointed, the Applicant will hand the SWMP over to the Contractor. The Contractor must then update the plan to include the following throughout the course of the project:
 - The name of the Site Manager; the person responsible for implementation of the SWMP.

- Recording the details of all contractors to work on the project and any specific responsibility they have in relation to the SWMP.
- Details of the waste contractors to be employed.
- Completion of the document register, detailing the records kept in order to prove compliance with environmental legislation.
- Any waste management action taken, in addition to those proposed by the Applicant to reduce the amount of waste generated.
- Production of updated waste data sheets as often as necessary, but at least every 6 months.
- Details regarding how and where waste will be separated and stockpiled on-site and any security measures that will be implemented to prevent illegal disposal.
- Details of any training that will be provided to ensure adherence to the SWMP.
- The type and frequency of any measuring or monitoring that will be carried out.

Project Details

Project Information

1.5 Table 1.1 below provides the key project information available at this stage, including the proposed Gross Internal Area (GIA).

Applicant	Berkeley Homes (East Thames) Ltd
Employers Agent	Berkeley Homes (East Thames) Ltd to confirm
Principal Contractor	Berkeley Homes (East Thames) Ltd to confirm
Principal Designer	PRP Architects
Site Location	Royal Arsenal Riverside, The Ropeyards, Plots D &K, Land
	between Duke of Wellington Avenue and Beresford Street,
	London, SE18 6NP
	Grid Reference: TQ436791
Proposed GIA (m ²)	72,352.8
Start Date	2026
Completion Date	Plot K 2028, Plot D 2031
Description of Project	Submission of Reserved Matters (Appearance, Landscaping,
	Layout and Scale) pursuant to Condition 2 of planning
	permission reference 16/3025/MA, dated 17.03.2017, for
	residential units and non-residential floorspace within Plots D
	and K, along with public / private landscaping details, car /
	cycle parking, refuse / recycling facilities and play provision.
Waste Management Champion	Principal Contractor to confirm
SWMP Owner	Principal Contractor to confirm

Table 1.1	Key	Project	Information
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Site and Surroundings

- 1.30 The application site (Appendix A1) is located within Woolwich, Royal Borough of Greenwich (RBG).
- 1.31 The Site is located on the western edge of the wider Royal Arsenal Riverside masterplan and is approximately 2.3 ha. The Site currently sits on a temporary park and is bound to the south by the A206, the RAR A & B Blocks to the north (and north east) and RAR Phase 3, the Brass Foundry and The Guard House to the west.
- 1.32 Beyond the immediate site boundaries, to the north of the site is the River Thames and to the south and south east of the site is Woolwich Town Centre including the main shopping area along Powis Street, General Gordon Square, the Woolwich Arsenal Overground Train Station and the Woolwich DLR Station.

The Proposed Development

1.33 The description of the development is as follows:

"Submission of Reserved Matters (Appearance, Landscaping, Layout and Scale) pursuant to Condition 2 of planning permission reference 16/3025/MA, dated 17.03.2017, for residential units and non-residential floorspace within Plots D and K, along with public / private landscaping details, car / cycle parking, refuse / recycling facilities and play provision."

2. OBJECTIVES

- 2.1 The objectives of this Site Waste Management Plan are to:
 - Identify relevant policy and guidance that needs to be considered and supported by the Proposed Development.
 - Identify and implement roles and responsibilities of all parties involved in the management of waste.
 - Set the waste management principles and aspirations for the construction and operation of the Proposed Development.
 - Identify the waste expected to arise during the demolition, enabling and construction phases.
 - Implement good practice waste minimisation and management, outlining how waste will be eliminated, reduced, reused and recycled and, if required, disposed of correctly.
 - Monitor and review waste minimisation and waste management.

3. WASTE MANAGEMENT REGULATIONS AND GUIDANCE

3.1 The means of sorting, storing and collecting both site and operational waste are incorporated within policy and regulation as set out below.

Legislation and Best Practice Guidance

Definition of Waste

3.2 Waste is defined by the Council Directive on Waste (75/442/EEC) as "any substance or object which the producer or person in possession of discards, intends to discard or is required to discard."

Hazardous Waste

- 3.3 Hazardous Waste is waste with one or more properties that are hazardous to human health or the environment as defined by the Hazardous Waste (England and Wales) Regulations 2005 (HWR).
- 3.4 Under the HWR "it is an offence to produce hazardous waste at premises, or remove that waste from premises, unless those premises are either registered with the Environment Agency or are exempt."
- 3.5 Where subcontractors produce hazardous waste, it will be removed under the Hazardous Waste Premises Registration for that site. The Hazardous Waste (England and Wales) Regulations 2005 require a Hazardous Waste Consignment Note (HWCN) to be produced for each consignment of hazardous waste removed from site.

Inert Waste

- 3.6 The definition of inert waste (including bricks, tiles and ceramics, concrete, soils and stones and glass), is set out in the Landfill Directive (99/31/EC). It states that: "Waste is considered inert if:
 - 1. It does not undergo any significant physical, chemical or biological transformations;
 - 2. It does not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm to human health;
 - 3. Its total leachability and pollutant content and the ecotoxicity of its leachate are insignificant and, in particular, do not endanger the quality of any surface water or groundwater."

Waste Framework Directive

3.7 The revised European Union (EU) Waste Framework Directive was adopted and published in the Official Journal of the European Union in November 2008 (L312/3) as Directive 2008/98/EC. The Directive has established a framework for the management of waste across the EU and aims to

encourage reuse and recycling of waste, as well as simplifying current legislation. Since Brexit, the legal requirements remain largely unchanged, save that references to EU institutions, obligations and targets will be removed.

- 3.8 The key requirements are:
 - Give priority to waste prevention and encourage reuse and recovery of waste.
 - Ensure that waste is recovered or disposed of without endangering human health and without using processes which could harm the environment.
 - Prohibit the uncontrolled disposal of waste, ensure that waste management activities are permitted (unless specifically exempt).
 - Establish an integrated and adequate network of disposal installations.
 - Prepare waste management plans.
 - Ensure that the cost of disposal in borne by the waste holder in accordance with the polluter pays principle.

Materials Management Plan

3.9 The Definition of Waste: Code of Practice (DoWCoP) requires that a Materials Management Plan (MMP) is produced and specifies what information must be gathered and documented. The MMP must demonstrate the material has been deposited in the appropriate manner and will not pose unacceptable risks to human health or the environment. The MMP must be reviewed by a Code of Practice Qualified Person and receive final signoff by the Environment Agency.

Duty of Care

3.10 The Duty of Care is set out in section 34 (1) of the Environmental Protection Act 1990 and imposes a duty on any person who is the holder of controlled waste. Any persons who import, produce, carry, keep, treat or dispose of controlled waste, or as a broker has control of such waste, safe storage, transfer to the right person and requirement for checking up.

Waste Transfer Notes (WTS)

- 3.11 The Environmental Protection (Duty of Care) Regulations 1991 require a Waste Transfer Note (WTN) to be provided on the transfer of waste between parties. The WTN will contain enough information about the waste to enable anyone encountering it to handle it safely and either dispose of it or allow it to be recovered whilst maintaining compliance with law.
- 3.12 Copies of WTNs must be retained for 2 years minimum and be available for inspection by the environmental regulator following the transfer of waste.

- 3.13 The Regulations give specific requirements for the content of a WTN, which must:
 - Contain a written description of the waste and the corresponding 6-digit EWC reference code.
 - State the quantity of waste.
 - State whether the waste is loose or in a container, and if in a container, the type of container used.
 - State the time and place of transfer.
 - State the name and address of the transferor and transferee.
 - State whether the transferor is the producer of the waste.
 - State to which category of person the waste is transferred to, e.g. a registered waste carrier, or a holder of a waste management licence.
 - Provide details of any waste carrier's registration or any waste management licence, where used.

Waste Carrier's Registration (WCR)

- 3.14 The Control of Pollution (Amendment) Act 1989 establishes the requirement for carries of controlled waste to register with the Environment Agency. There are a number of exceptions to these requirements, including charities, waste collection authorities, and emergency situations.
- 3.15 Waste will only be removed from site using a subcontractor or supplier holding a valid WCR.

Site Waste Management Plans (SWMPs)

- 3.16 The legislation¹ mandating the development and implementation of a SWMP on medium and largescale construction projects was repealed in December 2013. However, many continue to recognise that SWMPs, when correctly implemented, can improve construction waste management with associated environmental and economic benefits.
- 3.17 A SWMP is an important part of implementing good practice WMM. A SWMP is not just a tool for managing waste on-site, it should also be used as a tool during the early design phase of projects, identifying potential waste streams to minimise and targeting appropriate rates of recovery to inform

¹ Site Waste Management Plans Regulations 2008 (Repealed in December 2013).

the development of the design. Planning and developing the SWMP before construction begins greatly helps realise the benefits of good practice WMM.

3.18 SWMPs remain best practice during construction and allow waste credits to be achieved under certification schemes such as BREEAM. It is anticipated that this SWMP will be regularly monitored by the Principal Contractors once appointed.

Construction Environmental Management Plan

- 3.19 Details of measures to protect the environment during the construction of the Proposed Development are set out in a Construction Environmental Management Plan (CEMP).
- 3.20 Measures address hours of working, noise, vibration, dust, light spill, wheel washing, control of runoff, and waste management. It is anticipated that the phased implementation of the CEMP will be a condition of the planning permission and that it will be regularly monitored.
- 3.21 Once finalised and approved by the LBH, the CEMP will be held on-site and all site personnel will be made aware of its existence and adhere to its guidance.

Considerate Constructors Scheme

- 3.22 This is a national initiative, set up by the construction industry. Construction sites that register with the Scheme sign up and are monitored against a Code of Considerate Practice, designed to encourage best practice beyond statutory requirements.
- 3.23 The Scheme is concerned about any area of construction activity that may have a direct or indirect impact on the image of the industry as a whole. The main areas of concern fall into three categories: the environment, the workforce and the general public.
- 3.24 It is expected that registered construction sites work in an environmentally conscious, sustainable manner.

Policy Context

The London Plan (March 2021)

- 3.25 **Policy SI7 (Reducing waste and supporting the circular economy)** states that resource conservation, waste reduction, increase in material re-use and recycling, and reductions in waste going for disposal will be achieved by the Mayor, waste planning authorities and industry working in collaboration to:
 - Promote a more circular economy that improves resource efficiency and innovation to keep products and materials at their highest use for as long as possible;

- Encourage waste minimisation and waste prevention through the reuse of materials and using fewer resources in the production and distribution of goods;
- Ensure that there is zero biodegradable or recyclable waste to landfill by 2026;
- Meet or exceed the municipal waste recycling target of 65 per cent by 2030;
- Meet or exceed the targets for each of the following waste and materials streams:
 - Construction and demolition 95 per cent reuse/recycling/recovery
 - Excavation 95 per cent beneficial use
- Design developments with adequate, flexible, and easily accessible storage space and collection systems and that supports the separate collection of dry recyclables (at least card, paper, mixed plastics, metals, glass) and food waste, as well as residual waste.

Royal Borough of Greenwich New Developments: Guidance Notes for the storage and collection of waste and recycling materials

- 3.26 This document sets out the Council's requirements for its waste and recycling collection services and should be used by architects and developers when designing waste storage and collection strategies.
- 3.27 RBG is committed to working towards meeting the Mayor of London's target of 50% of local authority collected waste being recycled or composted by 2020, aspiring to 60% by 2031 as set out in the London Plan (Chapter 5.16). The guidelines in this document aim to maximise the separation of waste for recycling and reuse and minimise the amount of waste sent for energy recovery by incineration or to landfill. For this to be effective, consideration needs to be given at the earliest possible stage in the planning process to the separation and storage of recyclable or reusable waste and compostable materials.
- 3.28 When a planning application is submitted, Royal Greenwich will expect details of the proposed storage facilities for waste and recyclable material to be specified in detail. This requirement is essential for the following types of application:
 - New residential, commercial, or mixed developments
 - Residential conversions
 - Extensions or redevelopments to existing buildings which result in a change in the existing number of residential or commercial units
 - Changes of use

Royal Greenwich Local Plan 2014 – 2028 (2014)

- 3.29 In determining the local context, the RBG Local Plan 2014 to 2028 sets out policy relevant to waste management within the area.
- 3.30 **Policy IM2 Waste Apportionment:** details waste management cooperations. The Royal Borough will contribute to the sustainable management of waste in Royal Greenwich by working with the other south east London Boroughs, pooling the Boroughs' waste allocations and identifying sites within the sub-region that will meet the combined London Plan waste apportionment figure. All existing waste transfer and management sites will be safeguarded for waste management use, unless appropriate compensatory provision is made in appropriate locations.
- 3.31 **Policy H5 Housing Design**: New residential development, redevelopment, refurbishment or conversions will be expected to achieve a high quality of housing design and an integrated environment including:

xi. Adequate provision for waste recycling.

- 3.32 **Policy DH1 Design:** All developments are required to be of a high quality of design and to demonstrate that they positively contribute to the improvement of both the built and natural environments:
 - x. demonstrate on-site waste management including evidence of waste reduction, use of recycled materials and dedicated recyclable waste storage space.

British Standard 5906:2005

3.33 The Standard provides a code of practice for the storage, collection, segregation for recycling and recovery, and on-site treatment of waste. It applies to new buildings, refurbishments and conversions of residential and non-residential buildings. The Standard also presents typical weekly waste arisings and subsequent storage requirements for a variety of building types, as shown below:

Building Type	Equation for weekly waste arisings (litres)
Office	Volume arising per employee [50 I] x number of employees
Shopping centre	Volume arising per sqm of sales area [10 l] x square meterage
Fast food outlet	Volume per sale [5 I] x number of sales

 Table 3.1
 Waste volume calculations for non-domestic uses

Department store	Volume per sqm of sales area [10 I] x sales area
Restaurant	Volume per number of covers [75 l]
4/5 star hotel	Volume per bedroom [350 I] x number of bedrooms
2/3 star hotel	Volume per bedroom [250 I] x number of bedrooms
1 star hotel / B&B	Volume per bedroom [150 l] x number of bedrooms
Supermarket (small)	Volume per sqm of sales area [100 l] x sales area
Supermarket (large)	Volume per sqm of sales area [150 l] x sales area
Industrial unit	Volume per sqm of floor area [5 l] x floor area
Entertainment complex / leisure centre	Volume per sqm of floor area [100 l] x floor area

4. ROLES AND RESPONSIBILITIES

Overview

4.1 The table below identifies the various parties involved and their responsibilities in relation to the SWMP.

Table 4.1	Roles	and	Responsibilities

Party	Role and Responsibility		
Principal Contractor	Production and distribution of the SWMP		
	Implementation of the SWMP		
	• Appointment of Waste Contractor for removal of waste and off-site		
	segregation and recycling		
	Auditing and reporting of site performance against the SWMP		
	• Updating of the SWMP to reflect any changes of responsibilities or		
	personnel		
	Recording of the quantities of materials being delivered to the site		
	• Recording of the quantities of materials being removed from the site for		
	recycling		
	Recording of all training held in respect to waste management		
	Ensuring all records are maintained on-site		
	Retention of report for 2 years after project completion		
Waste Contractor	Provision of waste containers and equipment		
	Recording of the quantities of waste removed from the site		
	Collecting, transporting and disposing of waste for re-use, recycling, recovery or disposal		
	Providing waste transfer notes		
	Providing monthly waste reports		
Subcontractors	Attendance of training as directed by the Principal Contractor		
	 Following arrangements for the collection and segregation of waste on- 		
	site as specified in the SWMP		
	 Contacting the Principal Contractor if they are unclear about any aspect 		
	of waste or waste management on-site		
	5		

4.7 All persons working on-site are responsible for adhering to the SWMP. This includes attending training as specified and following arrangements for the movement and segregation of waste on-site.

Principal Contractor

- 4.8 The Principal Contractor shall distribute copies of the SWMP to the Principal Designer, Applicant and each Subcontractor. This will be undertaken every time the plan is updated.
- 4.9 They will ensure that an appointment is in place with a registered Waste Management Contractor.
- 4.10 The Principal Contractor will also carry out regular auditing and reporting of how the project is performing against the Site Waste Management Plan.
- 4.11 The Principal Contractor will also be responsible for the implementation of the SWMP.
- 4.12 Their duties will include, but are not limited to:
 - Ensuring waste is managed on-site in accordance with the SWMP. This includes ensuring appropriate segregation of waste on-site and arrangements for the removal of waste from the site.
 - Ensuring all employees and contractors understand their duties in relation to the SWMP. This includes arranging appropriate training and toolbox talks.
 - Ensuring that all required records and documents are filed and retained.
 - Ensuring compliance with Duty of Care and other relevant legislation. The Site Manager will be the point of contact for all employees, contractors and waste contractors in relation to the SWMP.
- 4.13 It is recommended that the Principal Contractor nominates a "Waste Champion" on-site to be responsible for the daily management, monitoring and enforcing of waste and also co-ordinating pickup times with the waste management companies. The Waste Champion should also ensure that skips do not become contaminated by incorrect waste being placed in them.
- 4.14 The Principal Contractor's Procurement Lead is responsible for working with the SWMP Owner to ensure that all waste management requirements and targets are included in subcontract procurement packages. The Procurement Lead is also responsible for ensuring the Waste Management Contractor appointed for use on the project are registered Waste Carriers and have valid and verifiable registration documents.

Waste Management Contractor

4.15 The Waste Management Contractor will be responsible for recording the amount of waste taken offsite. They will also provide suitable waste containers, equipment and personnel as necessary to meet the requirements set out in the SWMP as well as produce documents and keep records as required.

- 4.16 They will be responsible for removing waste off-site and transporting to a licensed waste management facility.
- 4.17 The Waste Contractor is responsible for ensuring waste is managed off-site as specified in the SWMP and ensuring the waste treatment facilities have a waste licence and that records are provided to the Principal Contractor.
- 4.18 The Waste Contractor's details are listed below:

 Table 4.2
 Waste Contractor Details

Contractor	Contact Details	Licence Number and Expiry Date
Principal Contractor to confirm on appointment	Principal Contractor to confirm on appointment	Principal Contractor to confirm on appointment

Subcontractors

- 4.19 Subcontractors are expected to ensure compliance, to adhere to the principals and site practices described in this SWMP, to attend training sessions and to contribute to the achievement of the SWMP targets as necessary.
- 4.20 The subcontractors are yet to be confirmed. This SWMP will be updated and revised as information becomes available. All contractors will be listed in the following table with contact details. All contractors are responsible for adhering to the SWMP.

Package	Subcontractor	Contact Details	
Piling	Principal Contractor to confirm	Principal Contractor to confirm	
Groundworks	Principal Contractor to confirm	Principal Contractor to confirm	
Frame	Principal Contractor to confirm	Principal Contractor to confirm	
Façade	Principal Contractor to confirm	Principal Contractor to confirm	
Roofing	Principal Contractor to confirm	Principal Contractor to confirm	
Brick / Blockwork	Principal Contractor to confirm	Principal Contractor to confirm	
Drylining	Principal Contractor to confirm	Principal Contractor to confirm	
Joinery	Principal Contractor to confirm	Principal Contractor to confirm	
MEP	Principal Contractor to confirm	Principal Contractor to confirm	
Screed	Principal Contractor to confirm	Principal Contractor to confirm	
Kitchens	Principal Contractor to confirm	Principal Contractor to confirm	
Bathrooms	Principal Contractor to confirm	Principal Contractor to confirm	
Floor Finishes	Principal Contractor to confirm	Principal Contractor to confirm	

Table 4.3Subcontractor Details

Metalwork	Principal Contractor to confirm	Principal Contractor to confirm
Painting and Decorating	Principal Contractor to confirm	Principal Contractor to confirm
External Works	Principal Contractor to confirm	Principal Contractor to confirm

Key Personnel Contact Details

4.21 The table below provides the contact information of key personnel in relation to the SWMP.

Role	Name	Address	Telephone	Email
Applicant	Berkeley Homes (East Thames) Ltd	Royal Arsenal Project Office, Beresford Street, London, SE18 6BG	0208 331 7000	<u>marco.liberace@</u> <u>Berkeleygroup.c</u> <u>o.uk</u>
Principal Contractor	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm
Principal Designer	Principal Designer to confirm	Principal Designer to confirm	Principal Designer to confirm	Principal Designer to confirm
Operations Director	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm
Waste Management Champion	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm
Document Controller	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm	Principal Contractor to confirm

Table 4.4	Key Personnel Contact Details

5. WASTE MANAGEMENT PRINCIPLES

- 5.1 As defined above, waste is "any substance or object which the producer or person in possession of discards, intends to discard or is required to discard". Construction, demolition and excavation (CD&E) generated around three fifths (62%) of total UK waste in 2018².
- 5.2 Implementing good practice Waste Minimisation and Management (WMM) on construction projects will help reduce the amount of construction waste sent to landfill. Waste minimisation includes designing out waste from a project and limiting waste arising in the construction phase. Waste management involves identifying potential waste streams, setting target recovery rates and managing the process to ensure these targets are met. Good practice WMM is increasingly being implemented in construction projects to realise key benefits. The following principles are the pillars of WMM.

Circular Economy Principles

- 5.3 As specified under London Plan Policy SI7, the principles of circular economy should be at the core of the proposed development. The CE can be defined as "...one where materials are retained in use at their highest value for as long as possible and are then reused or recycled, leaving a minimum of residual waste³." The six circular economy (CE) principles, which should be fundamental throughout both detailed design and construction works, are:
- 5.4 1. Building in layers ensuring that different parts of the building are accessible and can be maintained and replaced where necessary.
- 5.5 2. Designing out waste ensuring that waste reduction is planned in from project inception to completion, including consideration of standardised components, modular build, and reuse of secondary products and materials.
- 5.6 3. Designing for longevity.
- 5.7 4. Designing for adaptability or flexibility.

² Gov.uk. (2022). Statistics on waste. Available at <u>https://www.gov.uk/government/statistics/uk-waste-data/uk-statistics-on-</u> waste

³ Mayor of London. (2022). London Plan Guidance: Circular Economy Statements.

- 5.8 5. Designing for disassembly.
- 5.9 6. Using systems, elements or materials that can be reused and recycled.

Waste Hierarchy

5.10 The waste hierarchy is displayed in Figure 5.1 below. The hierarchy orders waste management options according to what is best for the environment. Consideration of how to manage waste should be carried out in this order.





5.12 Waste management needs to consist of a holistic approach during the design, contractual and construction phases. This should involve the Applicant, designers, contractors and any other relevant parties. Each party can take actions to reduce the amount of waste arising at different stages of a site development.

Prevent / Reduce Waste

5.11

- 5.13 The following items are to be taken into account by the Applicant / Designers in relation to the design or the construction method in order to minimise the quantity of waste produced on-site:
 - Design the project to suit component sizes.
 - Reduce the need for temporary or false works.
 - Structural solutions which minimise materials and simplify the structure.

- Set the level of the building to minimise export of spoil.
- Plan for the re-use of spoils to form landscape features.
- 5.14 The following actions will be taken by the Principal Contractor in order to reduce the amount of waste generated throughout the project:
 - Order the correct materials, as specified.
 - Order the correct quantity of materials.
 - Deliver materials at the appropriate time (just in time delivery).
 - Encourage suppliers to use less packaging.
 - Store and handle materials correctly.
 - Ensure protection of finished works.
 - Follow the suppliers' storage instructions.
 - Keep harmful chemicals in secure bunded areas.
 - Protect lightweight materials from wind.

Re-Use Materials

5.15 Where possible, surplus materials should be re-used on the site. Where materials are surplus to requirements on-site (such as soils), there may be a requirement for them to be recovered off-site at other projects. Materials can be sold on by the Principal Contractor, or donated.

Recycling Waste

- 5.16 Wherever possible, waste will be segregated before being removed from site, with skips and bins clearly labelled. This prevents specific waste streams from becoming contaminated and ensuring they are ready for recycling. However, due to the limited storage area on typical construction sites, a general waste skip may be used for all waste generated (other than Gypsum products) and separation will be carried out off-site at a Waste Transfer Station. Waste will either be diverted for reuse or recycling or disposed of at landfill.
- 5.17 It is critical that waste separation is relayed to the Site Manager by the operators of the Waste Transfer Station in order to ensure that accurate data is recorded in the SWMP. Where possible, smaller waste materials, such as that from the canteen and the office, should be segregated and recycled separately at the nearest Local Civic Amenity point or other recycling centre. This is to include the recycling of plastic, paper, cardboard, cans and other waste.

Waste to Landfill

5.18 This is a last resort option. Landfill disposal is expensive, and it is accompanied by high disposal costs in the Landfill Tax.

6. WASTE TYPES, QUANTITIES AND TARGET SETTING

Construction Stage Waste Targets

- 6.1 Overall construction and operational waste targets will be set, as well as specific targets developed for each waste stream. These are specified in the section below. Waste related targets for the Site are outlined in line with the Applicant's policy on resource efficiency, defined in the most recent Sustainability Performance Report⁴.
- 6.2 The following targets will be set:
 - Reuse or recycle 98% of the total waste (excluding hazardous waste).
 - Operate at zero avoidable waste by following the principles of circular economy.
 - Incorporate an effective incident reporting system to reduce near misses with a target of zero environmental incidents.
- 6.3 The use of recycled content and secondary aggregates must be encouraged and given priority, reducing the demand for virgin material and optimising material efficiency in construction. Recommended at:
 - Concrete (up to 10% recycled aggregate content, and/or 10% cement replacement with Ground Granulated Blast-furnace Slag (GGBS). The latter figure can be increased to above 40% for all mixes providing longer curing time can be accommodated in the construction process).
 - Blockwork (at least 50% recycled content).
 - Insulation (at least 50% recycled content).
 - Plasterboard (at least 95% recycled content).

⁴ Berkeley Group. Sustainability Performance Report 2022-2023. Sustainable Futures. Available at <u>Berkeley Group</u> <u>Sustainability Performance Report 2022-2023</u>

Demolition Waste Segregation and Diversion Targets

- 6.4 The project involves the construction of 2 new residential plots with commercial units across the ground floors (Buildings D1, D2, D3, D4, D4 and K3 K4, K5). Plots D and K will be constructed on land currently in use as a temporary park.
- 6.5 Therefore, demolition waste produced during construction of the development is expected to be minimal and consist exclusively of excess excavated materials created during landscaping works. As a priority, clean excavated material will be reused on-site within the proposed landscaping works and if this is not practical, then material should be repurposed at nearby construction sites. Non-hazardous excavated materials should target a landfill diversion rate of 98% of the total volume (m³).
- 6.6 Further review is required once the Principal Contractor is appointed.

Construction Waste Segregation and Diversion Targets

6.7 The Building Research Establishment (BRE) has developed indicators to aid in the calculation of construction waste arisings at the design of a new development. The Environmental Performance Indicator (EPI) measures tonnes of waste / 100m² of gross floor area. Table 6.1 shows the EPIs from the BRE.

Project Type	Tonnes / 100m ² gross floor area
Residential	15.3
Commercial Retail	15.7
Commercial Offices	12.4
Education	14.9
Leisure	14.8
Industrial Buildings	12.4
Healthcare	13.0

 Table 6.1
 Construction waste benchmarks

Notes: Data taken from BRE Waste Benchmark Data (issued October 2017)

6.8 Tables 6.2 below shows the estimated construction waste arisings for the Proposed Development, based on the indicative Gross Internal Area (GIA) and the applicable BRE benchmarks.

Total GIA (m ²)	BRE project type	Tonnes / 100m ² gross floor area (BRE)	Estimated construction waste (tonnes)
72,352.8	Residential	15.3	11,070
Total	-	-	11,070

Table 6.2 Estimated Construction waste

- 6.9 It is estimated that approximately 11,070 tonnes of waste may arise from the construction of the Proposed Development. Over the duration of the construction works (expected to commence in 2026 with Plot K expected to be completed by 2028 and Plot D by 2031), waste generation is likely to vary significantly according to the programme and phasing.
- 6.10 It should be noted that the estimated total figure also does not include waste from infrastructure development, such as utilities, car parks, pavements and landscaping that will add to the total construction waste volume. This is due to the fact that infrastructure development cannot be easily calculated using benchmarking data; and the BRE have no applicable information for this area of construction.

Identification and Classification of Waste

6.11 Prior to the start of works and/or upon the introduction of a new waste stream, the SWMP Owner will identify and classify waste materials leaving site by reference to a six-digit European Waste Catalogue (EWC) code and associated description as required by the List of Wastes (England) Regulations 2005 (LoWR). Waste can be solid, liquid or sludge.

Predicted Waste Streams

6.12 Figure 6.1 below illustrates the estimated composition of construction waste arisings for the Proposed Development, based on data from UK construction projects of a similar nature.





6.13 Table 6.3 below shows the standard, good and best practice recovery rates for typical construction materials.

Material	Standard recovery* %	Good practice recovery* (quick win) %	Best practice recovery* %			
Timber	57	90	95			
Metals	95	100	100			
Plasterboard	30	90	95			
Packaging	60	85	95			
Ceramics	75	85	100			
Concrete	75	95	100			
Inert	75	95	100			
Plastics	60	80	95			
Miscellaneous	12	50	75			
Electrical Equipment	Limited information	70**	95			
Furniture	0-15	25	50			
Insulation	12	50	75			
Cement	Limited information	75	95			
Liquids and oils	100	100	100			
Hazardous	50	Limited information***	Limited information***			
* Proposed waste management actions						
'Reuse' and 'recycling' are forms of waste recovery						
** This is a required recovery target for the type of Waste Electrical and Electronic Equipment (WEEE)						

Table 6.3 Recovery rates for typical construction materials

6.14 It should be noted that typical hazardous materials from construction sites that fall within the HWR include:

- Treated wood, glass, plastic (alone or in mixture) containing dangerous substances;
- Bituminous mixture containing coal tar and other dangerous substances;
- Metals containing oil, coal tar and other dangerous substances;
- Cables containing oil, coal tar and other dangerous substances;
- Rubble or hardcore containing dangerous substances;
- Soil, stones and dredging spoil containing dangerous substances;
- Gypsum materials such as plasterboard containing hazardous materials;

- Unused or unset cement;
- Paints and varnishes containing organic solvents or other dangerous substances;
- Paint or varnish remover;
- Adhesives and sealants containing organic solvent or other dangerous substances; and
- Empty packaging contaminated with residues of dangerous substances e.g. paint cans.
- 6.15 Hazardous waste materials will be stored in secure bunded compounds in appropriate containers which are clearly labelled to identify their hazardous properties and are accompanied by the appropriate assessment sheets.
- 6.16 Any fuels, oils and chemicals that are used will be stored in appropriate containers within secure bunded compounds in accordance with good site practice and regulatory guidelines and located away from sensitive receptors.
- 6.17 This section will be reviewed and amended as required once the Principal Contractor is appointed.

Operational Waste Targets

- 6.18 RBG is committed to working towards meeting the Mayor of London's target of 50% of local authority collected waste being recycled or composted by 2020, aspiring to 60% by 2031 as set out in the London Plan⁵.
- 6.19 In line with the Mayor of London's target, the amount of waste to be diverted for recycling during operation of the proposed development has been set at 50% of the total volume (m³). The waste hierarchy should be followed and landfill diversion (i.e., energy from waste) should be prioritised for the remaining volume. The following actions have been identified to achieve this:
 - Provision of adequate 50:50 segregated residual waste and recycling material bins in each residential unit, plus bins for organic waste streams.
 - Centralised and easily accessible refuse areas located on the basement or ground floor level of each building.

⁵ Royal Borough of Greenwich (2018). New Developments. Guidance Notes for the storage and collection of waste and recycling materials.

• Adequate signage to reduce the likelihood of waste contamination.

7. WASTE MANAGEMENT MEASURES

Construction Phase Waste Reduction Measures

- 7.1 This section presents a number of measures that may be implemented during the construction of the Proposed Development in order to minimise the amount of waste arising. Appendix A3 identifies additional measures for reducing waste during specific elements of the construction phase. This document will be further developed once the Principal Contractor has been appointed.
- 7.2 The waste hierarchy identified above will be followed throughout the construction phase. Good practice actions to reduce waste and subsequent actions identified during construction will be recorded within A2. This will seek to minimise the production of waste throughout the project.

Storage and Segregation

- 7.3 Where space allows, an area for the storage of off-cuts and surplus materials will be created with appropriate packaging and weatherproofing to keep them in usable order so that these materials can be reused on site or stored for reuse on another project.
- 7.4 All waste will be stored securely on site and during transportation to prevent pollution, contamination, fly tipping and nuisance complaints. A waste management compound will be established within the site perimeter taking into account the sensitivity of the surrounding area and characteristics of the waste types produced on site. This will be accessible to on-site staff and waste removal to facilitate re-use, recycling and recovery of waste. Signs will be placed throughout the relevant areas of the site directing individuals to the location of waste storage areas.
- 7.5 The Applicant will also adhere to the following requirements:
 - Waste will be segregated into hazardous, non-hazardous and inert waste. Waste materials
 will be classified in accordance with the LoWR and segregated onsite according to European
 Waste Classification (EWC) codes.
 - There will be an adequate number of containers of an appropriate size and type for the collection and segregation of waste. Suitable containers may include: Wheelie bins: 240ltr, 360ltr, 660ltr; Skips: 8YD, 12YD, 16YD.
 - Waste containers will be covered with netting, sheeting or lids to prevent the escape of waste and the contents from getting wet e.g., from rain and on-site water use.
 - Storage areas for raw materials and assembly areas for construction components will be located away from sensitive receptors.

- All waste containers will be clearly labelled with appropriate segregation stickers as per the Institution of Civil Engineers (ICE) colour coding. Each will be labelled with the relevant waste segregation sign to help reduce mixed waste skips.
- During the internal strip out and fit out phases, wheelie bins or a practical alternative will be provided on each floor and labelled with segregation signs for each relevant waste stream being produced. Once full, these bins are to be transported to the designated waste consolidation area.
- Regular checks on site will be conducted for litter and damage to waste containers, such as leaks.
- Temporary offices and work compounds on-site will retain all details relating to the waste strategy for the site, health and safety and monitoring and reporting details.
- 7.6 In addition, the provision of effective and secure storage areas for construction materials is important to ensure that potential loss of material from damage, vandalism or theft is avoided. These measures will be supported by ensuring well-timed deliveries to the site, providing on-site security and installing temporary site security fencing.
- 7.7 Implementation of good practice measures in terms of on-site storage and security practices will assist in reducing unnecessary wastage of material and ensure that high standards are maintained throughout the development process.

Earthworks

- 7.8 Where excavations required for landscaping works encounter both Made Ground and the underlying natural soils, the soils should be segregated prior to subsequent testing for either disposal off-site or reuse on site (under The Definition of Waste: Development Industry Code of Practice).
- 7.9 If off-site disposal is required, classification of surplus arisings should be carried out in line with the requirements of Technical Guidance WM3, including analysis of the total concentrations of polycyclic aromatic hydrocarbons, total petroleum hydrocarbons, metals and pH and waste acceptance criteria (WAC) analysis. If asbestos is identified in the sample, asbestos quantification testing should be undertaken.
- 7.10 Where practicable, clean excavated material will be reused on-site within the proposed landscaping works.
- 7.11 Any material that cannot be reused on-site will be removed by licensed waste carriers and sent for treatment or disposal (as appropriate) at appropriately licensed facilities.

Gypsum Waste

- 7.12 Any waste containing any amount of Gypsum that is sent to landfill must go to a separate cell for high sulphate waste. Therefore, it is imperative that Gypsum waste is separated from other waste.
- 7.13 The following measures will be implemented to address this:
 - A dry storage area will be set aside for bagged plaster mix. This will reduce wastage and may save money.
 - Mixed or dry plaster should not be washed into drains or surface waters as this can cause water pollution.
 - Clean, uncontaminated plasterboard will be recycled.
 - Wet, mixed plaster should be left to go off before disposal. Liquid waste cannot be disposed of at landfill sites.
 - Plaster, plasterboard and other Gypsum products will be separated from general waste, as they contain high levels of sulphates.

Landfill

7.14 Indicative lists of landfill sites and transfer / treatment facilities that have the potential to receive waste from the Proposed Development can be found at Appendix A4. It should be noted that the specific waste facilities that will be used during construction phases will not be known until the Principal Contractors had been appointed.

Sustainable Selection of Construction Materials

7.15 A sustainable materials selection strategy should be prepared prior to construction. Measures should be taken, such as face-to-face 'toolbox talks' and provision of clear operational instructions, to ensure that contractors are committed to the operation of good practice measures on-site with emphasis on continual improvement and identifying appropriate opportunities to reduce waste, promote recycling and use recyclable materials. The ordering of appropriate, minimum amounts of building materials should be part of the materials selection strategy.

Promotion of Best Practice

7.16 As part of the encouragement of on-site best practice, there will also be a need to ensure that suppliers of raw materials to the Proposed Development are committed to reducing any surplus packaging associated with the supply of any raw materials. This includes the reduction of plastics (i.e. shrink wrap and bubble wrap), cardboard and wooden pallets. This may involve improved procurement and consultation with selected suppliers regarding commitments to waste minimisation,

recycling and the emphasis on continual improvement in environmental performance. Where practical, site waste targets and incentives will be set and incorporated into the contracts of supply chain suppliers.

7.17 Table 7.4 summarises the most important mitigation measures to minimise the potential waste of onsite materials during construction. It is important to note, however, that not all construction materials will be provided by local suppliers.

Task	Action
Ordering	Avoid: Over-ordering (order 'just in time') Ordering standard lengths rather than lengths required Ordering for delivery at the wrong time (update programme regularly)
Delivery	Avoid: Damage during unloading Delivery to inappropriate areas of the site Accepting incorrect deliveries, specification or quantity
Storage	Avoid: Damage to materials from incorrect storage Loss, theft or vandalism through secure storage and on-site security
Handling	Avoid: Damage or spillage through incorrect or repetitive handling

Table 7.1 Measures to reduce the wastage of on-site construction materials

7.18 Where practicable, waste types that have the potential to be reused on-site or transported off-site for recycling will need to be segregated. Although every effort will be made to retain all suitable materials on-site, it is possible that some of these materials cannot be reused or recycled during the construction process. In these situations, the Site Managers will work to identify a nearby Transfer Station or suitably licensed facility in order for material to be redistributed as fill on other suitable sites. This represents the most sustainable alternative to landfill disposal.

Construction Logistics and Traffic Impacts

- 7.19 The logistics associated with construction waste are affected by a wide range of factors. The quantity and types of waste materials generated will fluctuate during the construction phases and the resulting number of waste collections will be dictated by a range of variables, including the amount of storage space for waste, the capacity of waste containers used, the materials segregated for recycling and whether any on-site processes are used for reducing the volume of waste (e.g. compactors / balers / shredders etc.).
- 7.20 The Principal Contractors will be expected to provide construction waste logistics forecasts, that will be discussed with waste contractors and the relevant local authority following appointment of relevant parties.
- 7.21 The impact of traffic associated with the movement of construction and waste materials on surrounding neighbourhoods and the local road network will be minimised by a combination of factors. These include reducing the need to import / export materials; and minimising off-site removal

of waste to landfill. Dedicated haulage routes will be agreed with RBG to minimise disturbance to local communities.

Pre-Construction Phase Waste Reduction Measures

7.22 During the pre-construction phase, the following measures and actions have been identified for review by the design team.

Action Responsibility Agreed Outcome Minimise lift pit depths Principal Designer to confirm Design Team Structural solutions that Design Team Principal Designer to confirm minimise and simplify the structure as much as possible, e.g. use of pre-cast concrete Use of cement alternatives Design Team Principal Designer to confirm Re-use of excavated material Design Team Principal Designer to confirm Using materials with high Design Team Principal Designer to confirm recycled content (RC) Prioritise durable products and Design Team Principal Designer to confirm materials Prioritise products with EPDs, Design Team Principal Designer to confirm ISO14001, BES6001, or accredited EMS certification Use of low embodied carbon Design Team Principal Designer to confirm façade cladding Materials procurement from Design Team / Principal Designer / Applicant to confirm manufacturers adopting Applicant cleaner manufacturing processes

Table 7.2 Pre-Construction Phase Waste Reduction Measures

Action	Responsibility	Agreed Outcome
Paints and finishes with low	Design Team	Principal Designer to confirm
VOC content and		
formaldehyde levels will be		
specified		
Minimise composite materials	Design Team	Principal Designer to confirm
Aim to specify standard sized	Design Team	Principal Designer to confirm
components		
Maximise non-structural	Design Team	Principal Designer to confirm
internal partitions		
Consider flexible floor plates or	Design Team	Principal Designer to confirm
grids		
Waste management to be	Design Team /	Principal Designer / Applicant to confirm
integral to the procurement	Applicant	
process and appointment of		
contractors		

Setting Targets

- 7.23 In addition to those presented within this document, appropriate targets and objectives will be set in relation to the minimisation and recycling of any waste materials during earth works and construction. This will ensure that a clear action plan is generated for the management of specified types and quantities of materials identified for each of the construction stages. These targets will be agreed at the inaugural meeting between the Principal Contractors, the contractors and the RBG.
- 7.24 To ensure that the system of waste prevention, minimisation, reuse and recycling is effective, consideration will be given to the setting of on-site waste targets and a suitable programme of monitoring at regular intervals to focus upon:
 - Quantifying raw material wastage;
 - Quantifying the generation of each waste type;
 - Any improvements in current working practices;
 - Methods by which the waste types are being handled and stored; and
 - The available waste disposal routes used, e.g. landfills, waste transfer stations.

7.25 The Principal Contractors will be responsible for the setting and review of waste targets from the outset of the development process to ensure that high standards are maintained with the emphasis being on continual improvement. Specific waste quantification and monitoring will assist in determining the success of waste management initiatives employed on each construction site and progress against these targets should be relayed back to the appropriate stakeholders.

Training

- 7.26 Waste training will be provided by the Principal Contractors or external trainers and include a combination of the following:
 - Induction covering general waste management on site including segregation and storage.
 - Toolbox Talks and briefings covering specific waste topics such as the legal requirements for the management of waste; the environmental effects of waste; and management of soil movements.
 - Specialist Waste Training for individuals such as how to complete WTNs/HWCNs for those who have responsibility for completing and signing off WTNs/HWCNs.

Operational Phase Waste Reduction Measures

7.27 This section details the strategy that will be adopted to manage the waste arising from the Proposed Development once operational.

Operational Waste Management Strategy

Management and Storage of Waste

- 7.28 In order to facilitate easy sorting of waste streams for residents, each dwelling will be fitted with a three-compartment waste bin, with each compartment corresponding to the relevant waste stream to be collected by the Council. This will maximise the potential for residents to correctly sort waste within their home. Guidance for waste stream sorting and collection will be provided in the home user manual.
- 7.29 When internal bins are full, residents will transfer their waste to a dedicated storage area, located within the curtilage of their building on the ground floor. In accordance with the Council's waste collection requirements.
- 7.30 The waste storage areas will have dedicated containers for, at a minimum, refuse, dry recycling and compostable which will be segregated in line with the relevant guidance, standards and legislation.

- 7.31 The RBG also provides Waste Electrical and Electronic Equipment (WEEE) and Textiles recycling and Bulky Waste collections⁶ and these should be incorporated into the development where practicable.
- 7.32 The RGB collects standard residential waste and recycling streams on a weekly basis only. Therefore, provision needs to be made for at least 8 days' output for residual, recycling and organic waste to allow for one week's storage plus extra to cover service disruption from statutory holidays, adverse winter weather or other occurrences out of the Council's control.
- 7.33 A total of nine waste storage locations will be provided, with weekly waste arisings to be collected by the Council's waste operatives from all nine of these locations on a weekly basis, accounting for a weekly transfer of waste from buildings A1 to A6 to the central waste storage area provided between buildings D2 and D3 (Central Waste Store) by the estate management team. The locations of the refuse storage areas for both residential and commercial units are shown in Appendix A2.
- 7.34 Commercial waste will be collected by a contractual arrangement. The waste storage areas will be located within the curtilage of the buildings for ease of use and to ensure accessibility for commercial waste collection operatives.
- 7.35 The waste storage area will be designed to the standards within BS5906:2005 Waste management in buildings – Code of practice and in accordance with BS 8300:2009. In summary, the facilities should include the following:
 - A suitable water point in close proximity to allow washing down to mitigate against odours;
 - All surfaces sealed with a suitable wash proof finish (vinyl, tiles etc.);
 - A suitable floor drain;
 - All surfaces easy to clean; and
 - Suitable lighting and ventilation (the latter to help mitigate against any odours).
- 7.36 All waste storage areas will be designed to ensure the appropriate segregation of non-hazardous and hazardous waste, as required by the relevant guidance, standards and legislation. They will have

⁶ Royal Borough of Greenwich (2018). New Developments. Guidance Notes for the storage and collection of waste and recycling materials.

clear signage to ensure cross contamination of refuse, recycling and other waste streams is minimised.

7.37 Doors will have a minimum clearance opening of 1.5m. Floor surfaces will be of a smooth, continuous finish and free from steps or other obstacles. Any steps will incorporate a drop-kerb.

Collection of Waste

- 7.38 Typically, the collection of residential waste will be undertaken through the RGB council's standard collections. Residents will be responsible for depositing waste in the correct refuse storage areas. Commercial refuse will be collected through private collections, to be decided by each tenant.
- 7.39 Surfaces that waste containers need to be moved over will be of a smooth, continuous finish and free from obstacles. Any steps will incorporate a drop-kerb. Measures will be taken by the tenants to ensure that access to the agreed collection points will not be restricted on collection days.
- 7.40 The RGB collects standard residential waste and recycling streams on a weekly basis only. Commercial waste collection frequency will be dependent upon the schedule of the appointed waste contractor and the volume of waste generated during the tenant's operation.

8. MONITORING AND REPORTING

- 8.1 All movements of waste from site will be recorded and evidenced through WTNs or HWCNs.
- 8.2 The site will be monitored on a monthly basis during the construction phase to confirm whether the requirements of the SWMP are being managed effectively. This will ensure:
 - That the plan is up-to-date and that it is the correct version
 - That skip returns and waste data are being faxed or emailed back to the Applicant
 - That subcontractors are complying with the SWMP
 - That Waste Carrier returns are being received and filed
- 8.3 Waste Records have to be accurate so that the SWMP's progress is monitored correctly. A database will be used to record all waste leaving the site. Records will be taken directly from relevant forms, waste tickets and monthly waste reports provided by the Waste Contractor.
- 8.4 Waste Data Collections forms to be recorded and collected on a monthly basis. The electronic SWMP will be kept up-to-date following receipt of the completed forms, and at a period of not less than every three months, to ensure that the plan accurately reflects the progress of the project.
- 8.5 A review of the data will be carried out every three months, to ensure the compliance targets are being met, and any exceedances in waste type and percentages are reasoned, and actions implemented.
- 8.6 Once construction works are complete, a report will be completed, containing the following:
 - Confirmation that the SWMP has been monitored on a regular basis
 - Comparison of the estimated quantities and percentages of each waste type against the actual quantities of each waste type
 - A short analysis and discussion
 - Recommendations and conclusions

A1. SITE PLAN



A2. LOCATIONS OF CENTRALISED WASTE STORAGE AREAS



A3. CONSTRUCTION PHASE WASTE REDUCTION MEASURES

Element	Waste Type	Estimated Quantity	Is this Hazardous Waste? (Y / N)	Waste Reduction Measures	Recycling Measures
Superstructure					
Frame	Metalwork	TBC			Recycle using segregated skips or bins
Envelope Roofing	Timber	TBC		Re-use timber frames and formwork	Recycle using segregated skips or bins
	Concrete	TBC		Care taken to order correct quantity	Discuss return policy with supplier
	Bricks and Mortar	TBC			Recycle using segregated skips or bins
	Pallets and Packaging	TBC		Minimise packaging	Agree return or recycling policy with suppliers
Finishes					
Drylining and Partitions Joinery	Metals	TBC		Order in optimised lengths to minimise on-site cottage and wastage	Recycle using segregated skips or bins

Table A3.1 Construction Phase Waste Reduction Measures

Painting and Decorating	Timber Plasterboard	TBC	Order in optimised lengths to minimise on-site cottage and wastage Order in optimised lengths to minimise on-site cottage and wastage	Recycle using segregated skips or bins Discuss return policy with supplier
	Pallets and Packaging	TBC	Minimise packaging	Recycle using segregated skips or bins
	Plastics	TBC		
Building Servic	ces			
M&E Plumbing Security	Metals	TBC	Order in optimised lengths to minimise on-site cottage and wastage	Recycle using segregated skips or bins
IT and	Cables	TBC		Recycle using segregated skips or bins
Comms Cabling	Plasterboard	TBC	Order in optimised lengths to minimise on-site cottage and wastage	Discuss return policy with supplier
	Pallets and Packaging	TBC	Minimise packaging	Agree return or recycling policy with suppliers
	Plastics	TBC	Avoid over-ordering and return excess material	
Site Facilities				
Cleaning Service	Canteen Waste	TBC		Recycle using segregated skips or bins

Canteen	Office Paper	TBC	Print	double-side	d where	Recycle using segregated skips or bins
Provision	and		possib	ole		
Office	Drawings					
Management	Site	TBC				Re-use on other sites. Recycle using segregated skips or bins
	Hoarding					
	Plastic,	TBC	Use	of re-usabl	e mugs,	
	Foam Cups		plates	and cutlery	nstead of	
	and Cutlery		dispos	sable		

A4. RELEVANT LANDFILL/TREATMENT SITES

Environment	Operator	Site name	Site	Site Type	District	EA
al Permitting			Address			Area
Reference			and			
			Postcode			
FP3098HA	Biffa Waste Services Ltd	Shakespear e Farm Landfill Extension	St Mary Hoo Rochester Kent ME3 8RN	A1 : Co- Disposal Landfill Site	Medway	Kent and South Londo n
HP3298VN	London And Continental Railways Ltd	Marley Landfill Facility	Marley Landfill Facility Sandway Road Harrietsha m Kent ME17 1HT	A2 : Other Landfill Site taking Special Waste	Maidstone	Kent and South Londo n
BP3694HA	Bexley Sand & Ballast Company	Manor Farm	Manor Cottage Manor Road Bexley Kent DA5 3LX	A5 : Landfill taking Non- Biodegradabl e Wastes	Bexley	Kent and South Londo n
WP3898HL	R Marchant & Sons Limited	St Julians Quarry	Land/ Premises At Riverhill Sevenoaks Kent TN15 0RS	A6 : Landfill taking other wastes	Sevenoak s	Kent and South Londo n
LP3335UG	Bournewoo d Sand And Gravel Ltd	Bournewood Inert Landfill Site	Off A20 By Pass Swanley Kent BR8 7DP	L05 : Inert LF	Bromley	Kent and South Londo n

 Table 8.1
 Selected landfills in Kent and South London

Notes: Source: EPR Landfill Sites - Quarterly Summary - End September 2023

Permit / Installation reference	Waste Management Licence No.	Operator	Site type	Waste types permitted	Site address
HP3098EW/V	100373	Biffa G S Environmenta I Ltd	A11 Household, Commercial & Industrial Waste T Stn	Wide Variety	Unit 2, Aztec 406, 12, Ardra Road, Enfield, London, N9 0BD
FB3609LQ/A 001	404398	GBN Services Ltd	A11 Household, Commercial & Industrial Waste T Stn	Wide Variety	Montagu Industrial Estate, Gibbs Road, Edmonton, London, N18 3PU
PP3093EE/V 007	80723	Powerday Plc	A15 Material Recycling Treatment Facility	Wide Variety	Old Oak Sidings, Off Scrubs Lane, Willesden, London, NW10 6RJ
FB3600TZ/A0 01 4	404338	Premier Material Supplies	A16 Physical Treatment Facility	Enfield Bund Soil Management Area	Holly Hill Farm, The Ridgeway, Enfield, Middlesex, EN2 8AN
JP3795EL/V0 03	100204	J O'Doherty Haulage Ltd	A11 Household, Commercial & Industrial Waste T Stn	Wide Variety	Pegamoid Site, Nobel Road, Edmonton, London, N18 3BH
DP3891NP/V 002	80355	Camden Plant Ltd	A16 Physical Treatment Facility	Wide Variety	Lower Hall Lane, Chingford, London, E4 8JG

 Table 8.2
 Selected transfer and treatment facilities in London

Notes: Source: EPR Landfill Sites – Quarterly Summary – End June 2022

A5. GENERAL NOTES

- A5.1 The report is based on information available at the time of the writing and discussions with the client during any project meetings. Where any data supplied by the client or from other sources have been used it has been assumed that the information is correct. No responsibility can be accepted by Iceni Projects Ltd for inaccuracies in the data supplied by any other party.
- A5.2 The review of planning policy and other requirements does not constitute a detailed review. Its purpose is as a guide to provide the context for the development and to determine the likely requirements of the Local Authority.
- A5.3 No site visits have been carried out, unless otherwise specified.
- A5.4 This report is prepared and written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information, improved practices and changes in guidance may necessitate a re-interpretation of the report in whole or in part after its original submission.
- A5.5 The copyright in the written materials shall remain the property of Iceni Projects Ltd but with a royaltyfree perpetual licence to the client deemed to be granted on payment in full to Iceni Projects Ltd by the client of the outstanding amounts.
- A5.6 The report is provided for sole use by the Client and is confidential to them and their professional advisors. No responsibility whatsoever for the contents of the report will be accepted to any person other than the client, unless otherwise agreed.
- A5.7 These terms apply in addition to the Iceni Projects Ltd "Standard Terms of Business" (or in addition to another written contract which may be in place instead thereof) unless specifically agreed in writing. (In the event of a conflict between these terms and the said Standard Terms of Business the said Standard Terms of Business shall prevail). In the absence of such a written contract the Standard Terms of Business will apply.