Infrastructure

Site Waste Management Framework Plan

Project: Goldthorpe

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Title **Site Waste Management Framework Plan**

Client Newlands

Project Goldthorpe

Status Final

Date 24th May 2023

Document Control

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01	24th May 2023	
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Contents

Schedule of Drawing

Author	Title	Drawing Number	Rev	Location

1.0 Introduction to the Site Waste Management Framework Plan (SWMFP)

This Site Waste Management Framework Plan (SWMFP) sets out the overarching principles that will be adopted during the construction of Land to the South of Dearne Valley Parkway, Goldthorpe to minimise waste to landfill and adverse impacts to the environment. The location of the proposed scheme is provided at Appendix 01.

All waste would be stored on the Site in accordance with the relevant legislation, in particular the Duty of Care Regulations, 1991 (as amended) (Ref 6.1) and no burning of construction waste would be undertaken at the Site.

The Waste (England and Wales) Regulation 2011 repealed the Environmental Protection (Duty of Care) Regulations 1991 and apply the Duty of Care requirements brought in by the Environmental Protection Act 1990 (the EPA). The Waste Duty of Care: Code of Practice (2018) (Ref 14.13) sets out practical guidance on how to meet the waste duty of care requirements. It is issued under section 34(7) of the EPA in relation to the duty of care set out in Section 34(1) of the Act. All waste would be handled and stored safely and securely on Site in accordance with the statutory guidance set out in Waste Duty of Care: Code of Practice.

Legislation/code of practice includes, inter alia:

- Duty of Care Regulations, 1991 (as amended)
- Waste (England and Wales) Regulations 2011 (implementing the Duty of Care requirements brought in by the Environmental Protection Act 1990 (the EPA)
- Waste Duty of Care: Code of Practice (2018)

If there is any hazardous wastes:

- The Hazardous Waste (England and Wales) Regulations 2005 (as amended)

The SWMFP will be incorporated within all construction contracts arising from the development of the scheme and all contractors, their subcontractors and suppliers will be required to comply with the overarching principles. Furthermore, each construction contract will be required to develop its own Site Waste Management Plan (SWMP) in line with the overarching principles established in the SWMFP.

It is not known, at this time, how the construction works will be assembled and therefore the SWMFP has been prepared to accommodate multiple contracts and elements.

While the SWMFP will remain valid throughout the construction phase of the scheme, each construction contract has its own issues and the significance of each section of the SWMFP will vary.

A Site Waste Management Plan is used to record how waste is reduced, reused, recycled and disposed of on the development. This effectively means:

- Identifying key people and responsibilities (Section 3)
- Recording decisions taken to prevent waste through concept and design (Section 4),
- Forecasting waste produced by the development (Section 5),
- Planning how to reduce, reuse and the recover the forecast waste (Section 6),
- Implement and monitor the planned activity (Section 7), and
- Review and record lessons learnt (Section 8).

2.0 Description of the Works

Hybrid planning permission is sought for:

"Outline permission sought for the construction of Storage and Distribution (Use Class B8) and General Employment (Use Class B2) space with ancillary offices and gatehouses on four separate, self-contained and severable plots as shown on the submitted Parameters Plan. All matters reserved except for site access. Full permission sought for engineering infrastructure works to support the employment development comprising: the access roads; earthworks to create the development platform zones/bunding; drainage and culvert works; a flood compensation area; and strategic landscaping areas"

The development plots are shown on the attached parameters plan (Appendix 1).

3.0 Key People and Responsibilities

The development is currently in concept and outline design stage. The following key People have been identified / appointed:

- Developer – Newlands
- Project Manager – Avison Young
- Architect – UMC
- Civil Engineers - Hydrock
- Geotechnical Engineer – Hydrock
- Person Responsible for Site Waste Management – TBC
- Principal Contractors – TBC (Developer Appointment)
- Principle Designer – Curran Webb
- Site Manager – TBC (Contractor Appointment)
- Health and Safety Manager – TBC (Contractor Appointment)

The key people and organisations may change as the project progresses.

As the development progresses from concept and outline design stage into detailed design and construction further designers and contractors may be appointed to undertake key roles.

A key future appointment is that of the Project Manager who will be appointed by the Developer to oversee the whole development and to manage the interfaces between the different design discipline and the different construction phases / contracts.

A Schedule of Key People is contained in Appendix 04.

4.0 Decisions taken to prevent waste

This is a fundamental part of the waste management process and is not completed until the scheme is fully built out.

There are five fundamental stages to the development:

- Concept and Outline Design,
- Detailed Design,
- Contractor appointment and selection of materials and methods of construction,
- Construction, and
- Completion.

As each stage comes forward more detail is available which enable the next level of decisions to be made and recorded.

The design and construction teams are to embrace the concept of Designing Out Waste at all stages of the development by considering the five key principles to reduce waste

- Design for Reuse and Recovery
- Design for Off Site Construction
- Design for Material Optimisation
- Design for Waste Efficient Procurement
- Design for Deconstruction and Flexibility.

The decisions taken at Concept and Outline Design stage to prevent waste are recorded in Appendix 02.

The schedule contained in Appendix 2 is a live document and will be added to as each stages comes forward and the schedule will form part of each SWMP.

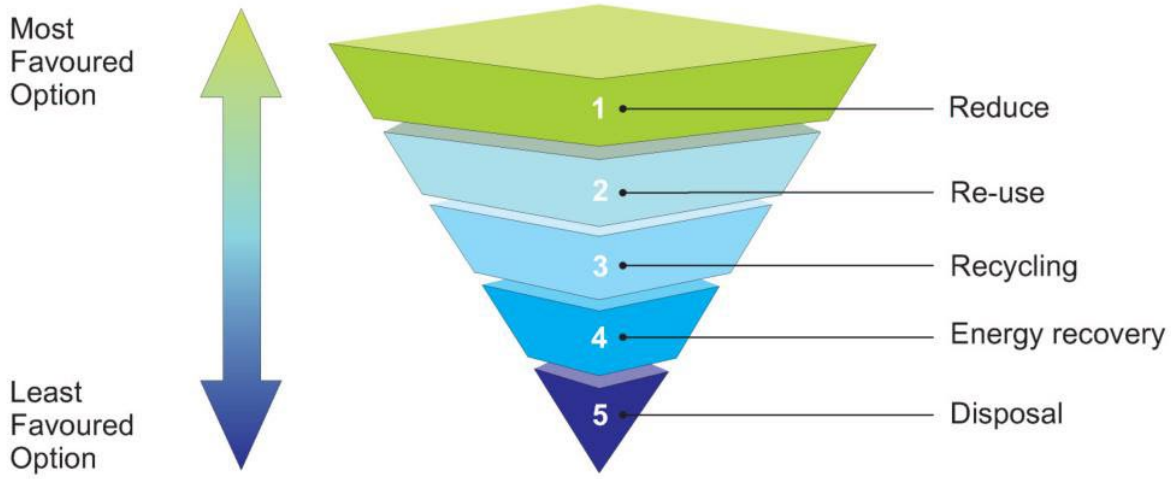
5.0 Forecasting waste produced

At Concept and Outline Design stage there is insufficient information to forecast the waste to be produced in any detail; however, indicative figures are contained in the Schedule of Forecast Waste contained in Appendix 03. The Schedule of Forecast Waste contains preliminary targets determined at the Concept and Outline Design stage.

The Schedule can be populated with meaningful data during the detailed design stage and thereafter.

6.0 Plan how to reduce, reuse and recover the forecast waste

The Plan to reduce, reuse and recover the forecast waste is based on the waste hierarchy:



A key opportunity on a project of this scale is to recycle waste from one component to another by rendering it suitable for incorporating into the construction of the permeant works. An important decision taken at Concept and Outline Design stage is for space to be provided within the site for recovering and storing waste from one component for use by other components. The management of this process will be the responsibility of Person Responsible for Site Waste Management identified in Section 3.

Existing bituminous surfaces can be planed out and reused as 6F3 capping material in accordance with Table 6/1 of the Specification for Highways Works (SHW). in pavements and footpaths and existing concrete can be crushed to generate Class 6F2 capping material in accordance with the SWH. suitable for drainage backfill and subbase for floors and pavements.

The proposed floor level should be selected, where possible, to allow for construction arisings (drainage, foundation etc.) to be incorporated within the permanent works negating the need for offsite disposal. In addition, surplus concrete and clay produced, whether surplus or waste, can be crushed to generate useable granular material.

Each designer in the Detailed Design stage will be charged with designing the works and specifying materials and methods to optimise the opportunities to utilise recycled materials.

As contractors are appointed they will also be charged with the responsibility of utilising recycled materials and selecting methods of construction which create recyclable products, whenever possible.

Contractors will also be charged with the responsibility of segregating wastes to facilitate recycling onsite in the first instance and offsite for waste that cannot be recycled into the works.

7.0 Implementation and Monitoring

Before any contractor commences works on any component they will be required to have prepared a Site Waste Management Plan (SWMP) and obtained the Project Manager's approval of the Plan.

The SWMP will include details on how the plan is to be implemented and the format of monthly monitoring. The Developer will expect the agreed targets to be achieved and when possible there to be continual improvement within a component and across all components.

The contractor is to demonstrate that his waste management proposals are compliant will all appropriate legislation giving particular attention to his responsibilities under the:

- Duty of Care Regulations, 1991 (as amended)
- Waste (England and Wales) Regulations 2011 (implementing the Duty of Care requirements brought in by the Environmental Protection Act 1990 (the EPA)
- Waste Duty of Care: Code of Practice (2018)

The contractor shall maintain onsite detailed records of all waste leaving the site including an audit trail to demonstrate the he has complied with the Duty of Care legislation.

8.0 Final Review

As each component is completed the contractor will be required to provide a Close Out Report on the final outcome of waste managed in each element of the hierarchy of waste in Section 6 and a summary

of lessons learnt and what could be done in the future to improve the reduction of waste leaving the site.

The Person Responsible for Site Waste Management will collate the information contained in each Close Out Report and prepare and maintain a Site Wide Close Out Report covering all components of construction.

The Person Responsible for Site Waste Management will also disseminate information on lessons learnt to all others involved in the project.

Appendix 01 – Parameter Plan

- Dimensions are in millimeters, unless stated otherwise.
- Scaling of this drawing is not recommended.
- It is the recipients responsibility to print this document to the correct scale.
- All relevant drawings and specifications should be read in conjunction with this drawing.

N

Key

Planning Application Boundary — 210.81 ac — 85.31 ha

Parameters Key

- Development Plot Boundary
- Green and Blue infrastructure
- Strategic Landscape screening
- Estate Road infrastructure
- Indicative access points (subject to reserved matters)
- Safeguarded land

Roundabout delivered under a separate planning application [Ref. No. 2021/1511]

Flood Compensation Area

Flood Compensation Area

Plot 1

Plot 2

Plot 3

Plot 4

Hollygrove Roundabout

A635 Barnsley Road

Dudley Drive

Rose Valley

Woodbine Cottage

Billingley Green

Aldi Goldthorpe RDC

Heather Garth Primary School

Carr Head Lane

Lacewood Primary School

Carr Dike

50m SCALE 1:2500

Development Schedule

Zone	Plot Size NDA (ha)	Maximum GIA Floor Space (m^2)	Plateau Height(in meters above ordnance datum)	Maximum Finished Floor Level (in meters above ordnance datum) [+1.000m above proposed plateau]	Maximum Building Height Measured to roof ridge / highest point (in meters above ordnance datum)	Ridge Height (above F.F.L. level)
Zone 1	11.35	**204,000m²** Total Area distributed across Zones 1,2, 3 & 4	24.50	25.50	43.50	18.00
Zone 2	8.46		25.00	26.00	44.00	18.00
Zone 3	17.92		33.70	34.70	52.70	18.00
Zone 4	6.29		33.70	34.70	52.70	18.00
Total	44.02					

The use class applied for within each zone is primarily Class B8 with up to 30% of the floorspace being for Class B2 together with ancillary office space

For the avoidance of doubt, the information shown within the development plots is indicative only, and will be subject to subsequent Reserved Matters Applications

PLANNING
THIS DRAWING IS FOR PLANNING CONSIDERATION ONLY AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE

rev	amendments	by	ckd	date

Barnsley Road, Goldthorpe

Parameters Plan

newlands developments

umc architects
Newark Beacon, Cafferata Way, Newark, Nottinghamshire NG24 2TN
t. +44 (0)1636 653027 e. info@umcarchitects.com

Drawing Status:	Planning
Drawn / Checked:	SS /SM
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Scale:	1:2500 A1
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22081 P0520	E

Appendix 02 – Decision taken to prevent waste

Goldthorpe

Site Waste Management Framework Plan

Decisions taken to prevent waste

Ref	Stage	Decision	Owner	Status	Action By
1	Concept and Outline Design	Storage areas to be made available to accommodate recycled material for movement between components (Temporary Storage)	Developer	On-Going	Contractor
2	Concept and Outline Design	Design of Permanent Works to permit recycled materials when possible	Developer	On-Going	All Designers
3	Concept and Outline Design	All artificially hard material to be crushed to render acceptable for incorporation into the permanent works	Developer	On-Going	Contractors & Designers
4	Concept and Outline Design	Removal of vegetation - excavated material will be processed to keep maximum amount of material on site	Developer	On-Going	All Designers
5	Concept and Outline Design	Testing to provide soil classification to ensure correct reuse of materials on site	Developer	On-Going	All Designers
6	Concept and Outline Design	Topsoil to be reused on site to create the screening bund and for use in the plots	Developer	On-Going	All Designers
7	Concept and Outline Design	Design to be as 'lean' as possible to minimise material usage, and hence any materials wastage. No overly conservative factors of safety etc	Developer	On-Going	All Designers
8	Concept and Outline Design	Where practical avoid specification of 'hard' materials where soft alternatives are practical (eg the maintenance strip adjacent to the watercourse)	Developer	On-Going	All Designers
9	Concept and Outline Design	Retention of as much existing vegetation on site as is practical	Developer	On-Going	All Designers
10	Concept and Outline Design	Distribution of electronic information to minimise paper usage/waste	Developer	On-Going	All Designers
11	Concept and Outline Design	Specification of precast elements where practical (less waste generated from precast facility than in-situ construction)	Developer	On-Going	All Designers

To be populated by the tenderer.

Appendix 03 – Schedule of Forecast Waste

Goldthorpe

Site Waste Management Framework Plan

Schedule of Forecast Waste

Waste Totals (Tonnes)

Waste Stream	EWC	Total arisings generated (Tonnes)	Total material retained on site (Tonnes)	Total waste sent offsite (Tonnes)	Total waste to landfill (Tonnes)	Total waste recovered offsite (Tonnes)	Cost of waste disposal (Landfill)
INERT WASTE					**25%**	**75%**	
Subsoils	17.05.04	500,000	500,000	0			
Coal	01.01.02	1,650	1,650	0			
Metal	17.04.05	0	0	0			
Timber	17.02.01	5	0	5	1	4	
Plastics	17.02.03	3	0	3	1	2	
General Site Waste	17.09.04	230	0	230	58	173	
Welfare Waste	20.03.01	140	0	140	35	105	
Brick/Block	17.01.02	0	0	0			
Demolition Waste	17.01.07	0	0	0			
Paper / Cardboard	15.01.01	3	0	3	1	2	
Insulation Material	17.06.04	0	0	0			
Aggregate	20.02/01	0	0	0			
Concrete	17.01.01	0	0	0			
Biodegradable waste	20.02.01	50	0	50	13	38	
NON HAZARDOUS WASTE							
Plasterboard	17.06.02	0	0	0			
HAZARDOUS WASTE							
Asbestos	17.06.05*	0	0	0			
Wet Waste	20.03.04*	0	0	0			
Contaminated Soils	17.06.03*	0	0	0			
Total		**502,081**	**501,650**	**431**	108	323	**£0.00**
			100%	**0%**	**25%**	**75%**	

Notes

All quantities are indicative at Concept and Outline Design Stage

To be populated by the tenderer.

Appendix 04 – Key People

Goldthorpe

Site Waste Management Framework Plan

Schedule of Key People and Responsibilities

Ref	Function	Name	Organisation	Successor Name	Successor Organisation	Date of Succession
1	Developer's Representative	Ken Brown	Newlands			
2	Project Manager	TBC	Avison Young			
3	Site Waste Management	tbc	tbc			
4	Engineer	tbc	Hydrock			
5	Principle Designer	Jim Curran	Curran Webb			
6	Principle Contractor	tbc	tbc			