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GCRE: Global Centre for Rail Excellence

Depot Area Earthworks and Site Wide Drainage: Waste Management Strategy

Global Centre for Rail Excellence (GCRE)

25th March 2024

C1437/Depot Area/Waste Management Strategy/March 2024/001

Notice

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This document has 14 pages including the cover.

Document history

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Document reference: C1437/Depot Area/Waste Management Strategy/March 2024/001

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Contents

Chapter	Page
Executive Summary	4
1. Introduction	5
1.1. Proposed Scheme	5
1.2. Planning Status	5
1.3. Existing Site	7
1.4. Scope of Works	7
1.5. Programme	8
1.6. Working Hours	8
1.7. Site Security	8
2. Site Waste Management	9
2.1. Waste Management Procedures	9
2.2. Waste Sources	9
Appendix A. Site Waste Management Plan	11
Appendix B. Site Logistics Plan	13

Executive Summary

The present document represents the Site Waste Management Strategy whilst undertaking the construction of the Earthworks and Site Wide Drainage aspects of the depot phase construction for the Global Centre of Rail Excellence (GCRE) project.

This document outlines;

- ❖ Walters UK Waste Management Procedures
- ❖ Responsible persons
- ❖ Waste Sources

This document has been developed to support the discharge of Pre-Commencement Planning Condition 31 from Planning Conditions P2021/0327 Neath and Port Talbot County Council and 21/0559/OUT Powys County Council.

1. Introduction

1.1. Proposed Scheme

The development proposal for the Global Centre of Rail Excellence (GCRE), is presented in the Depot Phase Development Plan GCRE_CS_0190 included in Appendix A.

The outline GCRE planning permission for the wider Washery comprises the installation of multiple sidings for rolling stock storage and decommissioning, a 'shunter's cabin' and electricity substation, inspection and maintenance sheds, carriage wash facilities, several buildings forming an Innovation Hub, a Depot, as well as further industrial/commercial developments.

GCREs intention is for development within the Washery to occur in three stages:

- ❖ Stage 1 – construction of earthworks
- ❖ Stage 2 – construction of limited railway trackbed
- ❖ Stage 3 – construction of the remaining trackbed and the UKRRIN building

Walters UK (WUK) has been contracted to deliver Stage 1 of the works, consisting of earthworks plateaus, landscaping and ecological enhancements.

No works are to be undertaken outside the Red Line Boundary or on the public highway.

1.2. Planning Status

The GCRE development has been granted planning under the following permissions;

Planning Status

Planning Permission Title	Planning Reference	LPA	Applicable to Depot Area Stage 1 Works
Nant Helen Complimentary Earthworks Scheme	20/0738/FUL	Powys County Council (PCC)	No
	P2020/0362	Neath and Port Talbot Council (NPTC)	No
Development of GCRE	21/0559/OUT	PCC	Yes
	P2021/0327	NPTC	Yes

As a requirement of the approved Planning Consent, Planning Condition (PC) 31 from permissions 21/0559/OUT and P2021/0327 listed below are required to be discharged prior to commencement.

This document will support the discharge of this Pre-Commencement Condition.

Planning Condition 12 Summary

Planning Decision:	21/0559/OUT Local Planning Authority PCC
Description:	GCRE Planning Permission: Development of a Global Centre of Rail Excellence, comprising of two test tracks of loop configuration being an electrified high speed rolling stock test track of 6.9 km in length and an electrified low speed infrastructure test track of 4.5 km, with overhead line equipment (OLE) and dual platform station test environment; together with operations and control offices (including staff accommodation and welfare), shunter cabins (two), research and development, education and training, rolling stock storage sidings and maintenance/cleaning/decommissioning facilities; associated, drainage, internal vehicular accesses, branch line rail connection, staff and visitor car parking, lighting, electrical infrastructure (including substations and lineside shore supplies and transformers), fencing (perimeter security, acoustic and stock proof), land reformation and hard and soft landscaping, together with demolition of existing buildings/structures
Condition and Summary	
31	As part of the submission of the first reserved matters application (for any phase of development as agreed under Condition 7) a site wide / overarching waste management strategy / Plan shall be submitted to the Local Planning Authority for its approval in writing, detailing the control, management, storage and disposal of any waste material generated during the demolition and construction of the development. The development of each phase shall thereafter be undertaken in accordance with the scheme as approved.
Planning Decision:	P2021/0327 Local Planning Authority NPTC
Description:	GCRE Planning Permission: Development of a Global Centre of Rail Excellence, comprising of two test tracks of loop configuration being an electrified high speed rolling stock test track of 6.9 km in length and an electrified low speed infrastructure test track of 4.5 km, with overhead line equipment (OLE) and dual platform station test environment; together with operations and control offices (including staff accommodation and welfare), shunter cabins (two), research and development, education and training, rolling stock storage sidings and maintenance/cleaning/decommissioning facilities; associated, drainage, internal vehicular accesses, branch line rail connection, staff and visitor car parking, lighting, electrical infrastructure (including substations and lineside shore supplies and transformers), fencing (perimeter security, acoustic and stock proof), land reformation and hard and soft landscaping, together with demolition of existing buildings/structures.
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1.3. Existing Site

The site was previously the Onllwyn Washeries servicing Nant Helen opencast, and consisting of rail sidings, various industrial buildings, and coal stockpiles. The buildings have been demolished and coal stockpiles removed.

Access to the washeries was gained by rail along the Neath and Brecon (NAB) branch line to the West, Heavy Goods vehicles from the A4221 from the East and Light Goods Vehicles from A419 through Onllwyn village.

The Washery buildings have now been demolished and coal stockpiles removed.

Along the Northern site boundary flows a watercourse, the high point of this watercourse is approximately mid-point along the length of the washery, with flows to both the East and West.

Sites of Importance to Nature Conservation (SINC) are present to both the North East and South East, and a wooded area lies between the washery site and the village of Onllwyn to the South.

The existing ground is made up of colliery spoil overlaying glacial till deposits, peat and alluviums and mudstones.

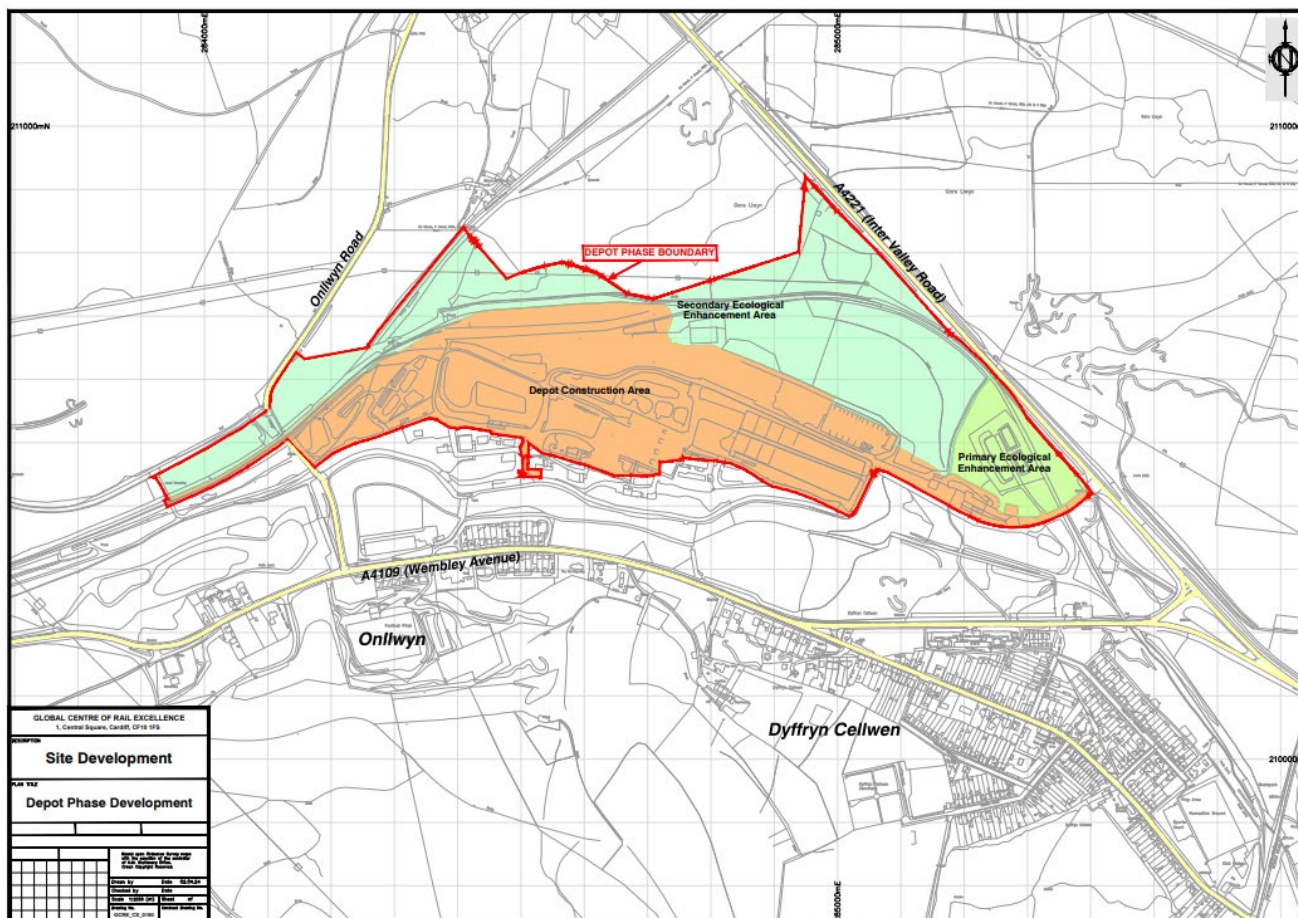
1.4. Scope of Works

WUK are contracted to deliver the Stage 1 works within the depot area, with construction works comprising:

- ❖ Construction of Earthworks Plateaus by undertaking an earthworks cut/fill operation with the site boundary
- ❖ Remediation (should any contaminants be discovered)
- ❖ Construction of Site Wide Drainage including swales, ditches, connecting pipework, attenuation pond and connection to the existing culvert at Onllwyn Road
- ❖ Construction of a combined sewer diversion
- ❖ Construction of a Site Access track along the Northern boundary
- ❖ Ecological Enhancements within the area around the existing waterbodies to the North East
- ❖ Grass seeding and landscape planting to drainage swales and attenuation pond
- ❖ Temporary Works required to deliver the permanent works

The delivery of the construction works will be undertaken as Walters UK as the Principal Contractor for the limits of the GCRE Depot Construction Area.

The site limits are defined by the red line boundary as shown within the figure below.



1.5. Programme

Anticipated programme for the earthworks delivery is;

- ❖ Construction Start mid-July 2024
- ❖ Construction Completion end of December 2024

1.6. Working Hours

Working hours will be as follows:

- ❖ Mon to Fri 07.30am to 18.00pm
- ❖ Sat 07.30am to 13.00pm
- ❖ No working on Sundays and bank holidays unless agreed with Local Authority

1.7. Site Security

Sections of the perimeter of the Depot Construction Area has existing chain-link fence, and this fence will be utilised as the security fence. Where no chain-link fence exists the site will be secured with double clipped Heras fence.

Out of hours security will be provided by 24 hour onsite manned guard.

2. Site Waste Management

2.1. Waste Management Procedures

Waste generated from construction of the earthworks and site wide drainage will be managed in accordance with Walters UK quality assured procedure QMS_41CP-10.2.5.1 Site Waste Management Plan, a copy of which is enclosed within Appendix A.

This document defines;

- ❖ Procedures
- ❖ Responsible persons
- ❖ Waste types and Quantities
- ❖ Waste Tracking

2.2. Waste Sources

The construction of the earthworks and site-wide drainage have identified the following sources of waste;

2.2.1. Earthwork Material

The proposed scheme involves an earthworks cut-to-fill exercise, involving the cutting of 150,000m³ of acceptable material, of which 75,000m³ will be placed as engineered fill within the permanent works and 75,000m³ will be placed as temporarily stockpiled material within the depot area to surcharge the phase 1A.

2.2.2. Existing Concrete Hardstandings

The existing concrete hardstanding within the depot construction area, approximately 15,000m³, will be broken up and crushed to generate a usable product to be used as a capping material within the permanent works.

2.2.3. Potential Contamination

During the excavation of the existing washery site, there is a potential to expose contaminated material. Any discovery of contamination will be dealt with in accordance with the Remediation Method Statement, submitted in support of discharging Planning Condition No. 23 and the overall Construction Method Statement submitted in support of the discharging Planning Condition No. 12.

2.2.4. Green Waste

There will be limited site clearance undertaken within the washery in the form of conifer trees and scrub. Green waste from the site clearance will be used to form hibernacula, and the remainder chipped down and mixed into any soils stripped.

2.2.5. Invasive Non-Native Species.

The ecological surveys have identified limited areas of Invasive Non-Native Species (INNS) and the removal of these invasive plants will be dealt with in accordance with the INNS Management plan appended to the Construction Environmental Management Plan (CEMP), submitted in support of discharging Planning Condition No 11.

2.2.6. General Construction Waste

The works will generate 'general construction waste' in the form of material packaging, canteen waste, office waste etc. This waste material will be disposed of through a series of named skips located at the site compound. Waste will be segregated at source into the dedicated skips to maximise waste recycling and minimise waste to landfill.

A copy of the site logistics plan is enclosed in Appendix B

Walters UK Limited
Hirwaun House
Hirwaun Industrial Estate
Hirwaun
Aberdare
CF33 9UL

Appendix A. Site Waste Management Plan

SITE WASTE MANAGEMENT PLAN

Site Waste Management Plan No:

C1437 GCRE Washery Depot Area

Rev No: 0

Date: 08/04/24

Prepared by: Rob Thomas (Technical Manager)

Date: 08/04/24

Reviewed/Approved by: Andrew Pope (Snr Project Manager)

Date: 09/04/24

Version and Review Control

Revision	Date	Revised by	Approved by	Description
0	08/04/24	First draft RT	AP	

Distribution

CONTENTS

PART A

SITE WASTE MANAGEMENT PLAN

- 1.0 Introduction
- 2.0 Site Waste Management Plan (Pre Construction)
- 3.0 Declaration

PART B

SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE) (FOR A PROJECT OF £500,000 OR LESS)

- 4.0 Introduction
- 5.0 Site Waste Management Plan (Construction Phase)
- 6.0 Declaration

PART C

SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE) (FOR A PROJECT WORTH MORE THAN £500,000)

- 7.0 Introduction
- 8.0 Site Waste Management Plan (Construction Phase)
- 9.0 Declaration

Schedule of Additional Duties

Appendix

PART A

SITE WASTE MANAGEMENT PLAN

1.0 INTRODUCTION

Any person who intends to carry out a construction/demolition project on one site with an estimated value greater than £300,000 must produce a site waste management plan (pre construction) before work begins.

The value of the project is the total value of materials and labour for the project.

If such a project is started without a site waste management plan, the person in charge of the project and the principal contractor are both guilty of an offence.

In the case of a project that does not use a contractor, a duty placed on the principal contractor must be carried out by the person in charge of the project, and that person is guilty of an offence if he fails to do so.

Part A of this Plan (Pre Construction) is to be completed by the Project Manager or his nominated representative.

Part B and Part C of this Plan (Construction Phase), whichever is applicable, is to be completed by the Principal Contractor.

The principal contractor must ensure that the site waste management plan is kept;-

- (a) at the site office, or
- (b) if there is no site office, at the site.

He must ensure that every contractor knows where it is kept, and must make it available to any contractor carrying out work described in this plan.

The principal contractor must keep the site waste management plan for two years after the completion of the project at his principal place of business or at the site of the project.

Any person who is under an obligation to produce or update this site waste management plan commits an offence if he fails to comply with the obligations stated above and the obligations stated in the Schedule to this Site Waste Management Plan.

2.0 SITE WASTE MANAGEMENT PLAN (PRE CONSTRUCTION)

Contract Name: GCRE Washery; Depot Area Earthworks

Contract Number: C1437

Location of the Site: Old Celtic Energy Washery. Onllwyn

Principal Contractor: Walters UK

Client: GCRE

Project Manager: Andrew Pope

Person Drafting the Plan: Rob Thomas

Designation of the Person Drafting the Plan: Technical Manager

Contract Duration: 16 weeks

Contract Start Date: Anticipated 22 July 2024

Contract Finish Date: Anticipated December 24

Contract Type: To be determined

Estimated Value of the Project: To be determined

Description of the Works

The contract involves the construction of earthworks plateaus and site wide primary drainage for the future construction of railway sidings and depot buildings.

The existing site was part of the Celtic Energy Washery site, and is predominantly made up of made ground consisting of colliery spoils.

Works will be undertaken under a Remediation Method Statement and associated testing.

Other works include landscaping and environmental enhancement works.

Nature of the Project

Earthworks operations involving cut and fill of existing materials on site undertaken under a Remediation Method Statement.

Site Rules

Site Rules to be communicated to contractors for activities on the site that promote compliance with the Site Waste Management Plan:-

General Rules

- Waste must not be buried, burned or dumped.
- Waste must be separated into the correct categories and disposed of in the proper manner.
- Waste should be stored in suitable containers, when appropriate, to protect it from escaping (e.g. by wind blowing). The container must be marked with a sign which indicates its particular contents.
- Waste should be stored such that it is safe against corrosion or wear of waste containers, accidental spilling or leaking, accident or weather breaking contained waste open and allowing it to escape, waste blowing away or falling while stored or transported, scavenging of waste by vandals, thieves, animals etc.
- Different categories of waste should be segregated to prevent mixing of incompatible wastes. Site employees should be aware of the location of tanks, receptacles etc designated for the storage of the various wastes. Waste tanks should be on concrete bases and bunded to prevent the egress of waste oil etc into the ground.
- All containers left outside for collection should be secured or sealed to resist the effects of the weather.
- Ensure that waste products are deposited in the designated receptacles and that the receptacles are not overloaded.
- Do not burn waste on site or in skips.

Site Specific Rules

Site Security

Details of site security measures required to be in place to prevent the illegal disposal of waste:-

Estimated Quantities of Waste

Description of each Waste Type	Estimated Quantity (Kg)	Waste Management Action			
		Re-using (Kg)	Re-cycling (Kg)	Recovery (Kg)	Disposal (Kg)
Excavated colliery spoils (of which 75,000m ³ as engineering fill, 75,000m ³ as stockpiled material for surcharge)	150,000m ³	150,000m ³			
Excavated concrete hardstandings processed into useable aggregates	15,000m ³		15,000m ³		

Waste Management Action

3.0 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 Environmental Protection (Duty of Care) Regulations 1991 and
- (b) materials will be handled efficiently and waste managed appropriately.

Signature of Project Manager.....

Date.....

Signature of Principal Contractor.....

Date.....

PART B

SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE) (FOR A PROJECT £500,000 OR LESS)

4.0 INTRODUCTION

If the project has an estimated value of £500,000 or less, whenever waste is removed from the site, the principal contractor must complete, sign and date Part B of this Plan.

5.0 SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE)

Waste Removal Summary

Date of Waste Removal	Waste Management Contractor	Types of Waste Removed	Destination of Waste	Principal Contractor Signature and Date

Each waste transfer note and consignment note relating to the above waste removal is to be appended to the Plan.

Waste Management Action

Plan and Actual Performance

The principal contractor is to sign and date the above table for each waste, within one month of the waste removal being completed, ensuring that the above sections on 'waste management action' and 'plan and actual performance' have been completed as necessary.

6.0 DECLARATION

I, the principal contractor, can confirm the following:-

- (a) 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 by the timely completion of the table in Section 5.0 above.
- (b) that the lessons learnt from any differences in circumstances between the first draft of the plan and actual performance have been described, by the completion of the 'plan and actual performance', in Section 5.0 above.

Signature of Principal Contractor.....

Date.....

PART C

SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE) (FOR A PROJECT WORTH MORE THAN £500,000)

7.0 INTRODUCTION

If the project has an estimated value greater than £500,000, whenever waste is removed from the site, the principal contractor must complete, sign and date Part C of this plan.

8.0 SITE WASTE MANAGEMENT PLAN (CONSTRUCTION PHASE)

Waste Removal Summary

Date of Waste Removal	Waste Management Contractor	Reference number of waste transfer note or consignment note.	Principal Contractor Signature and Date

Each waste transfer note and consignment note referenced above is to be appended to the plan.

Waste Management Action

Plan and Actual Performance

Types and Quantities of Waste

The following table is to be repeated for each type of waste, with all quantities being recorded in kilograms (kg):-

Waste Type:-								
Ref. No of note	Re-used On-site	Re-used off-site	Recycled for use on-site	Recycled for use off-site	Sent to re-cycling facility	Sent to waste licence exempt site	Sent to landfill site	Totals
Totals								

Waste Type:-								
Ref. No of note	Re-used on-site	Re-used off-site	Recycled for use on-site	Recycled for use off-site	Sent to re-cycling facility	Sent to waste licence exempt site	Sent to landfill site	Totals
Totals								

Waste Type:-								
Ref. No of note	Re-used on-site	Re-used off-site	Recycled for use on-site	Recycled for use off-site	Sent to re-cycling facility	Sent to waste licence exempt site	Sent to landfill site	Totals

Totals								

The Plan must be reviewed to ensure that it reflects the progress of the project and the above quantities of waste entered for each type of waste, as often as necessary, and in any event not less than every six months.

If necessary producing a further plan making changes to reflect the progress of the project.

Summary of Actual Quantities of Waste

Summary of actual quantities of waste for comparison to the table of 'estimated quantities of waste' contained in Section 2.0:-

Description of each Waste Type	Actual Quantity (kg)	Waste Management Action			
		Re-using (kg)	Re-cycling (kg)	Recovery (kg)	Disposal (kg)

Comparison of Estimated and Actual Quantities

Principal contractor to sign and date the above waste removal summary table for each waste, within one month of the waste removal being completed, ensuring that the above sections on waste management action and plan and actual performance have been completed as necessary.

Estimate of the Cost Savings

The estimate of the cost savings that have been achieved by completing and implementing this Site Waste Management Plan is stated as follows:-

9.0 DECLARATION

I, the principal contractor, can confirm the following:-

- (a) 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 by the timely completion of the table in Section 5.0 above.
- (b) that the lessons learnt from any differences in circumstances between the first draft of the plan and actual performance have been described, by the completion of the plan and actual performance in Section 8.0 above.

Signature of Principal Contractor

Date.....

SCHEDULE

Additional Duties

Any person who is under an obligation to produce or update a Site Waste Management Plan commits an offence if he fails to comply with the obligations contained in this schedule.

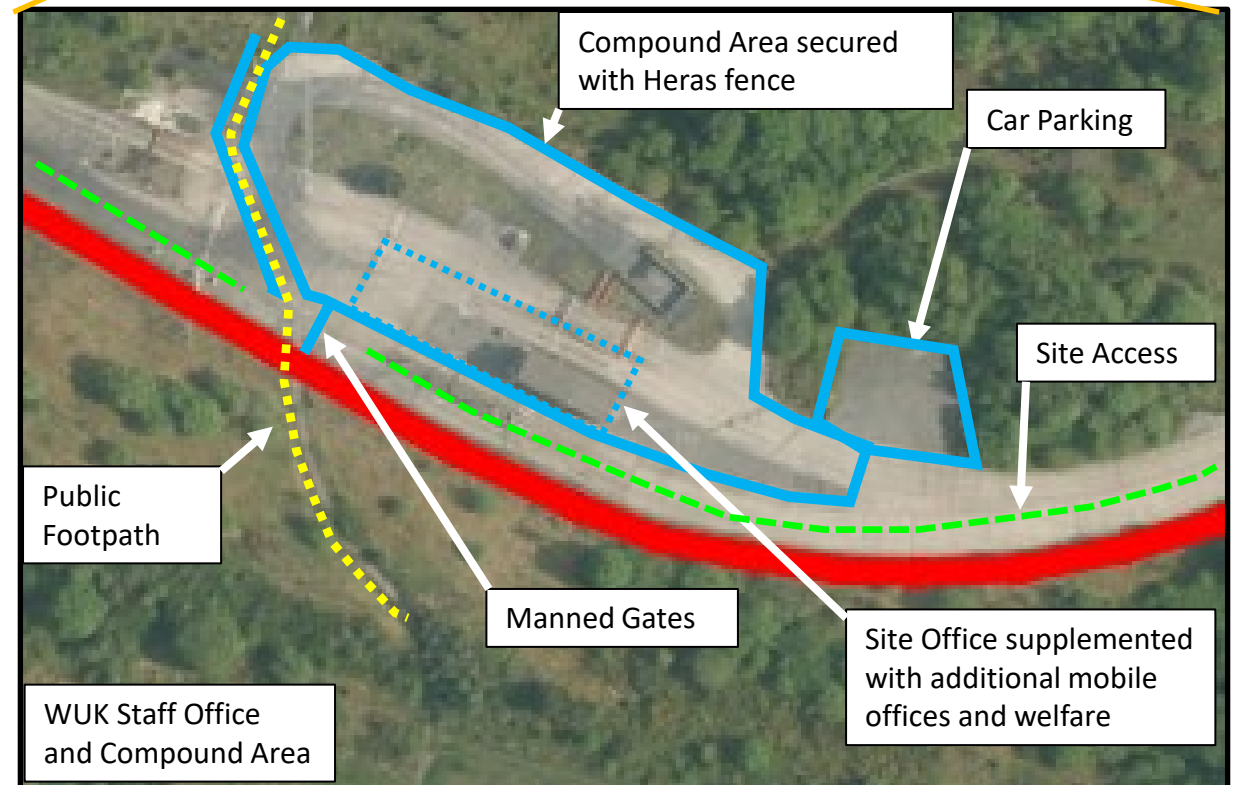
1. He must plan, design, manage and monitor the construction phase in a way which ensure that, so far as is reasonably practicable, it is carried out without consigning as waste any materials that could otherwise be re-used, recycled or recovered on-site or off-site.
2. He must draw up and communicate to contractors 'site rules' for activities on the site that promote compliance with the Site Waste Management Rules.
3. He must so far as is reasonably practicable, ensure co-ordination of the work, and co-operation among contractors at work during the construction phase.
4. He must give reasonable directions to any contractor so far as is reasonably practicable to enable the principal contractor to comply.
5. He must receive and monitor waste carrier registration details and waste transfer notes to ensure that waste removed from site is transferred to the prescribed destination and is managed in accordance with the Site Waste Management Plan
6. He must ensure that a copy of the Site Waste Management Plan is displayed in a readable condition in a position where it can be read by any worker carrying out the construction work.
7. He must ensure so far as is reasonably practicable that every worker carrying out the construction is provided with:-
 - (a) suitable site induction; and
 - (b) any further information and training which he needs for the particular work to be carried out within the terms of the Site Waste Management Plan.

8. He must review, revise and refine the Site Waste Management Plan as necessary.
9. He must in preparing, reviewing, revising and refining such a plan ensure that any changes in respective roles and responsibilities are clearly communicated to those affected.
10. He must make and maintain arrangements which enable him and the workers engaged, in the construction work to co-operate effectively in prompting and developing measures to ensure that any waste arising on site is managed within the terms of the Site Waste Management Plan and in checking the effectiveness of such measures.
11. He must take reasonable steps to ensure that sufficient site security measures are in place to prevent the illegal disposal of waste produced elsewhere.

APPENDIX

Appendix B. Site Logistics Plan

GCRE Washery Depot Area
Site Extent



Project Title: C1437 GCRE: Depot Area Earthworks		
Drawing Name: Site Logistics		
Client: GCRE		
Drawn: RT	Checked: AP	Date: 22/03/24
Approved: GP	Scale: NTS	DWG Ref: C1437/SK001

Notes:

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