Network Rail (Huddersfield to Westtown (Dewsbury) Improvements) Order

Condition 5b(iii): Waste Management Plan – Stage 3

Document reference: 151667-TSA-00-TRU-REP-W-EN-001232

Network Rail

April 2023

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Contents

Tables

1. INTRODUCTION

1.1 Background

1.1.1 The Scheme is part of a wider programme of works under the Transpennine Route Upgrade (TRU) which will improve the Transpennine railway between Manchester, Huddersfield, Leeds and York and improve connections between key towns and cities across the north of England.

1.1.2 Planning Direction for the Huddersfield to Westtown (Dewsbury) section of the TRU was received from the Department for Transport, referenced TWA/21/APP/03, dated 13 October 2022.

1.1.3 This Site Waste Management Plan (SWMP) sets out details in relation to Condition 5b(iii) of the Deemed Planning Permission.

2. STAGED APPROACH TO DISCHARGE

2.1.1 As set out in document ref 151667-TSA-00-TRU-REP-W-EN-001189 version 3 (submitted in relation to Condition 3 of the Deemed Planning) a staged approach is proposed in relation to discharge of the deemed planning conditions.

2.1.2 This document sets out details in relation to the Stage 3 works for the Huddersfield to Westtown (Dewsbury) Scheme.

2.1.3 Stage 3 comprises of the mining remediation works required in advance of construction of the Scheme. The mining remediation works required are set out in Table 2-1 and remediation methodologies described in paragraph 2.1.4 with location details set out in drawing 151667-TSA-00-TRU-REP-W-EN-001288 P04 in Appendix A.

Table 2-1 Proposed mining remediation mitigation measures

Area ID	Location of works	Mitigation measures
W3.1	Huddersfield South Tunnel	• Grouting of 2 mine shafts and 2 wells. All from tunnel level and below.
W3.1-3.3	Huddersfield Station	• Grid probing and grouting of voids for new structures: canopies, footbridge and subway extension. • Probe hole at proposed locations of Overhead Line Equipment (OLE) foundations. Grouting of voids if encountered. • Geosynthetic reinforcement for mining for track
W3.2-1, W3-2-3	Hillhouse Mainline	• Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered. • Geosynthetic reinforcement for mining for track
W3.3	West of Deighton Station (Area of Peels Pit underbridge)	• Capping and if necessary grouting of 2 mine shafts.
W3.3-1	Area of Bradley's No. 2 (BBW/1) Overbridge (MVL3/105)	Grid probing and grouting of voids for track, OLE and adit.
W3.3-3	East of Bradley Junction - Earthworks E9	• Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered. Geosynthetic reinforcement for mining for track
W3.4-1 W3.4-3	Heaton Lodge curve (MVL3 and MVN4)	• Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered.
W3.5-1	Mirfield Station	• Geosynthetic reinforcement for mining for track
W3.5-2	West of Sands Lane	• Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered. Geosynthetic reinforcement for mining for track

2.1.4 The following measures will be employed:

- Probe and grout – this will typically comprise of rotary open holes on a 6m grid, closing to 3m and finer if required. The area of the grid will be enclosed on the down dip side by perimeter holes at 3m closing to 1.5m spacing to confine grouting in the area of the grid and prevent grout escaping beyond the area of works. Where voids are encountered around the perimeter, these will be filled with pea gravel and a viscous grout, to form an underground cutoff. In the area of the main grid of open holes, these will be filled with

grout, with grout takes monitored, and paused at certain grout takes. Works will generally target new foundations and new structures, where considered necessary. Water will be needed during the drilling and grouting process. The wastewater will be treated on site (Siltbuster) and this water will be fed back into the water tank for reuse within the process. Any waste material will be removed from site by a licenced carrier.

- Track – where shallow workings are anticipated underneath the track alignment, a high strength geosynthetic reinforcement will be employed below the track bed.
- Where required at locations of OLE foundations, a targeted probe hole will be drilled, and any voids will be grouted (process above).
- Adits – where assessed as requiring treatment, these will be sealed/excavated out depending on depth and relationship to the main works. Where necessary probing and grouting may be used on shallow adits.
- Shafts – where assessed as requiring treatment, shafts will typically either be capped (reinforced concrete slab, typically 2x shaft diameter) or infilled with grout / bulk fill and grout.

2.1.5 Mining remediation works covering the Ravensthorpe area are considered within the Stage 1 documentation (previously submitted planning application ref 2022/44/93858/W).

2.1.6 It is anticipated that works within Stage 3 will commence in July 2023 and are anticipated to be completed by September 2024.

3. RELEVANT PLANNING CONDITION

3.1.1 The wording of Condition 5b(iii) is reproduced as follows:

5.a) No stage of the development (including preliminary works) is to commence until a Code of Construction Practice (CoCP) Part B for that stage, including the relevant plans and programmes referred to in (b) below (which incorporates the means to mitigate the construction impacts identified by the Environmental Statement), has been submitted to and approved in writing by the local planning authority. For the avoidance of doubt this does not include approval for Part A of the CoCP (a general overview and framework of environmental principles and management practice to be applied to the scheme along with all construction-led mitigation identified in the Environmental Statement) which has been submitted as part of the Order.

5.b) Part B of the CoCP (as defined in the Environmental Statement: Volume 3, Appendix 2-1 Code of Construction Practice (Part A), Section 1.2.5) must include the following plans and programmes, for each stage as defined in condition 3:-

iii) A waste management plan;

The development must be implemented in accordance with the approved CoCP and the relevant plans or programmes unless otherwise agreed in writing with the local planning authority shall be implemented in full throughout the period of the works.

***Reason**: To mitigate expected construction impacts arising from the development and to protect local and residential amenity and to ensure the development is carried out in accordance with Kirklees Local Plan policies LP51 and 52.*

4. ROLES AND RESPONSIBILITIES

4.1.1 The Site Environment Manager will be responsible for:

- Maintaining and revising the SWMP;
- All measures in the SWMP are implemented on Site. This includes ensuring that adequate resources are allocated to environmental management on Site;
- Implementing project procedures for waste management, waste minimisation and sustainability; and
- Monitoring and reporting on performance against waste objectives and targets.

5. WASTE MANAGEMENT

5.1 Waste hierarchy

5.1.1 All materials and generated waste will be managed in accordance with the waste hierarchy. The waste hierarchy sets out the options in order of preference (namely prevention, preparing for re-use, recycling, other recovery and disposal as set out in the Waste (England and Wales) Regulations 2011). Every effort will be made to achieve the highest options that are reasonably practicable and compliant with the law.

5.1.2 The most efficient management of materials and waste is usually found in selecting a combination of the following options:

- Efficient resource management to minimise the generation of waste in using selected products;
- Efficient resource management to minimise the generation of excavated wastes and on-site fabrication;
- Re-use and recycle excavated materials and waste in accordance with the Contaminated Land: Applications in Real Environments (CL:AIRE) protocol or some other exemption permit;
- Recycle unusable waste at designated recycling facilities; and
- Dispose of surplus excavated materials and waste at licensed landfill sites.

5.1.1 The requirements of the waste hierarchy will be enforced where possible, and the duty of care placed on all parties to take responsibility for protecting the interests and safety of others from the potential effects of handling, storing, transporting and depositing of excavated materials and wastes. Waste will be managed in accordance with the Site Waste Management Plan Regulations 2008.

5.2 Duty of Care

TRU West Alliance

5.2.1 The TRU West Alliance, on behalf of Network Rail, shall take all reasonable steps to ensure that:

- All waste from the site will be dealt with in accordance with the waste Duty of Care as set out in Section 34 of the Environmental Protection Act 1990 (as amended) and Defra's Waste Duty of Care Code of Practice (November 2018);
- Greater emphasis is put on the waste hierarchy to ensure that waste is dealt with in the priority order of: prevention; preparing for re-use; recycling; other recovery (for example, energy recovery); disposal, as per the Waste Regulations 2011 (as amended); and
- Materials will be handled efficiently, and waste managed appropriately.

5.2.2 Hazardous waste produced will be disposed of in compliance with the Hazardous Waste (England & Wales) Regulations 2005 (as amended).

5.2.3 There is the potential that various excavation works may expose asbestos. Measures will be adopted to manage the risk from the exposure of asbestos which will be in compliance with the Control of Asbestos at Work Regulations 2002.

Waste carriers

5.2.4 As the Scheme progresses and licensed waste carriers are procured, the SWMP will be updated to include the details and registration information of the selected waste carriers.

Waste management facilities

5.2.5 As the Scheme progresses, permitted waste facilities will be identified and the SWMP will be updated to include the details on waste facilities and quantities of wastes removed from site.

5.2.6 Duty of Care details of waste carriers and waste management facilities should be checked every 12 months to ensure they are still registered with the Environment Agency and are still complying with their license or permit requirements.

5.3 Waste minimisation

5.3.1 In designing the Stage 3 works, consideration will be given to re-use of materials, as opposed to purchasing new materials, where possible. Construction methods and use of materials will also consider and implement opportunities to reduce the amount of waste from the Stage 3 works, to support circular economy principles.

5.3.2 Table 5-1 shows details of waste minimisation measures that will be implemented during the Stage 3 works, where appropriate.

Table 5-1 Waste minimisation measures

Improvement area	Minimisation measures
Excavation	• Excavation waste arisings such as track ballast during track bed reinforcement will be reused on site where possible. Following which the priority for materials will be off-site re-use before recycling, following the waste hierarchy.
Minimisation of contaminated arisings	• Disturbance/removal of ballast will be minimised where possible. If found to pose no risk to receptors (e.g. groundwater and human health), contaminated ballast will be left undisturbed where feasible in line with Network Rail Standard ENV044. This approach can minimise potential transport and disposal costs. • If, as per Network Rail ENV044, ballast is identified as contaminated and cannot be left undisturbed, then it shall be removed from site by rail and processed at a Network Rail receiving centre by Network Rail's Route Services.
Imported material	• Avoiding over-purchasing as this can lead to significant wastage. • Ensuring materials are ordered for delivery shortly before they are used on the Stage 3 works should also avoid possible damage and therefore wastage. • Secure storage to minimise damaged materials/theft. Keeping deliveries packaged until they are ready to be used and the inspection of deliveries on arrival helps to reduce damage and wastage.
Use of take back schemes	• Some suppliers offer a take back scheme, which should be utilised where practicable, particularly for packaging and pallets.
Monitoring and review	• Data from waste removal and the periodic review process should be used to assess whether the waste objectives are being met, and if not to review procedures to steer the Stage 3 works towards achieving them. This will require clear responsibilities to be identified, supported with authority and incentives to act on any deviations from the SWMP.
Education and awareness	• Waste minimisation must be underpinned by education and awareness throughout all levels of the project team, from the design team to site contractors who handle the construction materials via site inductions and monthly toolbox talks which all contractors and site workers should be expected to attend.

Improvement area	Minimisation measures
Consideration of end-of-life materials	• Consideration should be given to what will happen to the materials specified when they reach the end of their useful life. Where possible, elements should be designed for repair, modular repair, recycling at the end of life or safe disposal. The use of hazardous materials should be minimised. • All materials and components that are no longer required should be offered on to the Surplus App.

5.4 Management of waste

5.4.1 On-site mitigation measures for managing waste include:

- A target 90% minimum recycling and recovery rate target, which applies to all wastes except soil, to be communicated to workers, with a clear understanding of what is expected;
- Deliveries will be organised so materials arrive on-site as they are needed to reduce the possibility of damage and wastage;
- Clearly defined and separated storage and waste areas will be used on-site; and
- Training staff to understand how they should sort any waste material and providing regular reminders and updates;
- Recyclable waste will be source segregated. This will be achieved through the provision of clearly marked and/or colour-coded containers to enable easy identification of where waste should be placed during planned/unplanned maintenance;
- Hazardous waste will be source segregated. An area will be set aside for hazardous waste storage which will include appropriate containers, for example Waste Electrical and Electronic Equipment (WEEE) cages; and
- Regular training will be provided, by the site manager, for staff and/or sub-contractors. The training will focus on the practices necessary to minimise waste and to facilitate good practice whilst undertaking litter picking and planned/unplanned maintenance.

5.4.2 Activities will be compliant with Network Rail's NR/L2/ENV/015[1].

Waste streams, storage and management

5.4.3 All waste is to be segregated, stored safely and securely in accordance with arrangements identified to prevent harm to human health and environment.

5.4.4 The waste streams in Table 5-2 are to be segregated for recycling or recovery off-site.

Table 5-2 Waste streams, storage and management

Waste stream	EWC code	Storage option	Management option
Paper and cardboard	20 01 01	Labelled bins	Recycling
Excavation waste	17 05 04	Segregated stockpiles	Reuse either on site or off-site
Plastic	20 01 39	Segregated skips / bins	Recycling
Timber	17 02 01	Timber skip	Recycling
Mixed metals	17 04 07	Metal skip	Recycling
Mixed Waste	17 09 04	Enclosed skips	Recycling

[1] Network Rail, Environment and Social Minimum Requirements for Projects – Design and Construction. March 2019.

5.4.5 Decisions made on each waste stream will be periodically revisited and checked with material and waste receivers and also operating landfills. This will ensure the case for waste management remains robust.

5.4.6 A SWMP spreadsheet (following the WRAP template) is included in Appendix B for information. Whilst the template is no longer available, this is the most effective way of tracking waste data throughout the project. This is a working document that that will be utilised to record estimated and actual waste arisings, and Duty of Care information throughout the Stage 3 works.

5.4.7 As information becomes available the anticipated waste generation figures will be updated prior to start on site. Information on actual waste arisings will be maintained by the Environment Manager and can be provided to the Local Planning Authority on request.

5.4.8 Following completion of the Stage 3 works, a review will be undertaken and recorded within the SWMP, to compare the estimated waste arisings and management options with the actual waste arisings and management options employed. The review will establish where actual waste arisings differ in volume or composition to that estimated and where different management options have been employed and provide explanation for the deviation.

5.4.9 It is important to re-iterate that the accompanying SWMP spreadsheet is a working document that requires the relevant sections completing at different stages, throughout the Stage 3 works. Final completion of the spreadsheet should not take place until the Stage 3 works is completed. Therefore, at any point during the Stage 3 works, sections of the spreadsheet will be incomplete.

5.4.10 SWMPs will be produced to cover subsequent Stages of Development.

Appendices

APPENDIX A – LOCATIONS OF MINING REMEDIATION WORKS

Stage 3 comprises of the mining remediation works required in advance of construction of the Scheme.

The following works are planned:

- Track bed reinforcement at various locations throughout the Scheme;
- Remediation of existing mine shafts, including backfill where appropriate;
- Probe and grout of voids in the area around Huddersfield Station;
- Probe and grout of voids in the track area near Hillhouse sidings; and
- Probe and grout of voids in the track area near Station Lane (Bradley Junction area);
- Probe and grout of voids in the track area near Sands Lane.

Track bed reinforcement

Track bed reinforcement

Area near Sands Lane

Hillhouse Sidings

Area near Station Lane

Mirfield Station

Huddersfield Station

1:350,000

Scheme Boundary

Probe and grout

Track bed reinforcement

Works to mine shafts and adits

0 125 250 500 750 1,000 1,250 1,500 Metres

SCALE 1:35,000

P01	19/03/21	FIRST ISSUE	KS	PB	PB
Rev	Date	Description of Revisions	Drwn	Chkd	Appr

Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

SchemeTitle: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

Drawing Title: Stage 3 works

Designed	K.Stenson	Signed Electronically	Date 19/03/2021
Drawn	P.Butler	Signed Electronically	Date 06/12/2022
Checked	P.Butler	Signed Electronically	Date 06/12/2022
Approved	P.Butler	Signed Electronically	Date 06/12/2022

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ELR & Project Chainage: ---

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Sheet: 1 of 11

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288

Revision: P04

Sheet Size A3 297 x 420

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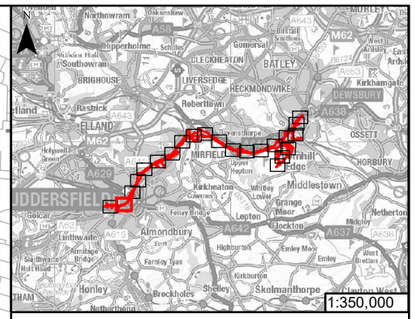
Area ID: W3.1
Huddersfield South Tunnel

Works comprise
- Grouting of 2 mine shafts and 2 wells. All from tunnel level and below.

Stage 3 works



Scheme Boundary
Adjacent Map Sheet

Probe and grout
Track bed reinforcement
Works to mine shafts and adits

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SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

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Drawing Title: **Stage 3 works**

Designed	R.Bowes	Signed Electronically	Date 12/02/2021
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Approved	P.Butler	Signed Electronically	Date 12/02/2021

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Sheet: 2 of 11

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288
Revision: P04

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Area ID: W3.1-3.3
Huddersfield Station

Works comprise
- Grid probing and grouting of voids for new structures: canopies, footbridge and subway extension.
- Probe hole at proposed locations of Overhead Line Equipment (OLE) foundations. Grouting of voids if encountered.
- Geosynthetic reinforcement for mining for track

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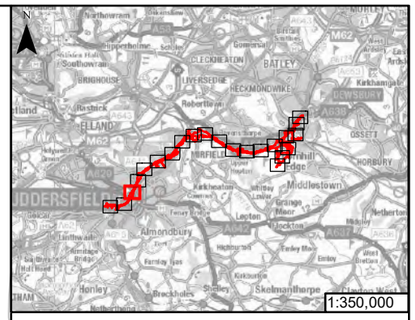

Scheme Boundary
Adjacent Map Sheet

Probe and grout
Track bed reinforcement
Works to mine shafts and adits

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Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

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Revision: P04

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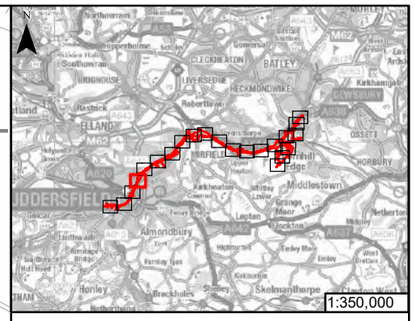
Area ID: W3.2-1, W3.2-2
Hillhouse Mainline

Works comprise
- Probe hole at proposed locations of OLE foundations with grouting of voids if encountered.
- Geosynthetic reinforcement for mining for track



Scheme Boundary
Adjacent Map Sheet
Probe and grout
Track bed reinforcement
Works to mine shafts and adits

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SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

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NetworkRail

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Alternative Reference: ---
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Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288
Revision: P04

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Area ID: W3.3
West of Deighton Station (Area of Peels Pit underbridge)

Works comprise
- **Capping and if necessary grouting of 2 mine shafts.**

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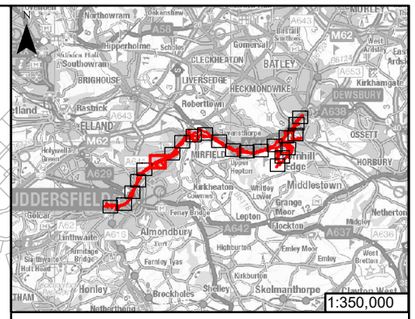

Scheme Boundary
Adjacent Map Sheet
Probe and grout
Track bed reinforcement
Works to mine shafts and adits

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SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
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Revision: P04

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Area ID: W3.3-1
Area of Bradley's No. 2 (BBW/1)
Overbridge (MVL3/105)

Works comprise
• Grid probing and grouting of voids for track, OLE and adit.

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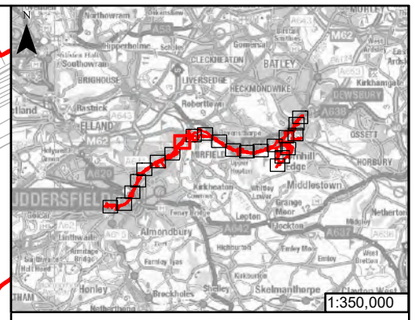

Scheme Boundary
Adjacent Map Sheet

Probe and grout

Track bed reinforcement

Works to mine shafts and adits

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Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED
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NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

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Drawing Title: **Stage 3 works**

Designed	R.Bowes	Signed Electronically	Date 12/02/2021
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Sheet: 6 of 11

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Revision: P04

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Area ID: W3.3-3
East of Bradley Junction - Earthworks E9

Works comprise
• Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered.
• Geosynthetic reinforcement for mining for track

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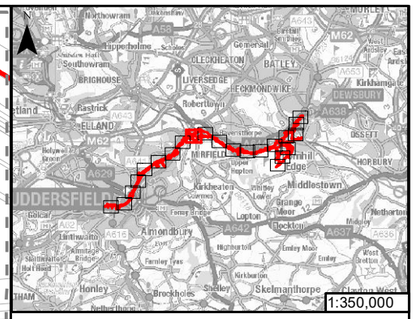

Legend

- Scheme Boundary
- Adjacent Map Sheet
- Probe and grout
- Track bed reinforcement
- Works to mine shafts and adits

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SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
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Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

Scheme Title: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

Drawing Title: **Stage 3 works**

Designed	K.Stenson	Signed Electronically	Date 11/04/2023
Drawn	Samsath S. Gowda	Signed Electronically	Date 11/04/2023
Checked	Farah Meraj	Signed Electronically	Date 11/04/2023
Approved	P.Butler	Signed Electronically	Date
Scale(s) 1:2,500		ELR & Project Chainage ---	

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Sheet: 7 of 11

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Revision: P04

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Area ID: W3.4-1 - W3.4-3
Heaton Lodge curve (MVL3 and MVN4)

Works comprise
- **Probe hole at proposed locations of OLE foundations. Grouting of voids if encountered**

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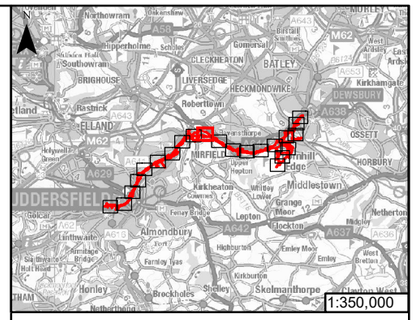


Scheme Boundary
Adjacent Map Sheet
Probe and grout
Track bed reinforcement
Works to mine shafts and adits

0 10 20 40 60 80 100 Metres
SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED
Suitability:

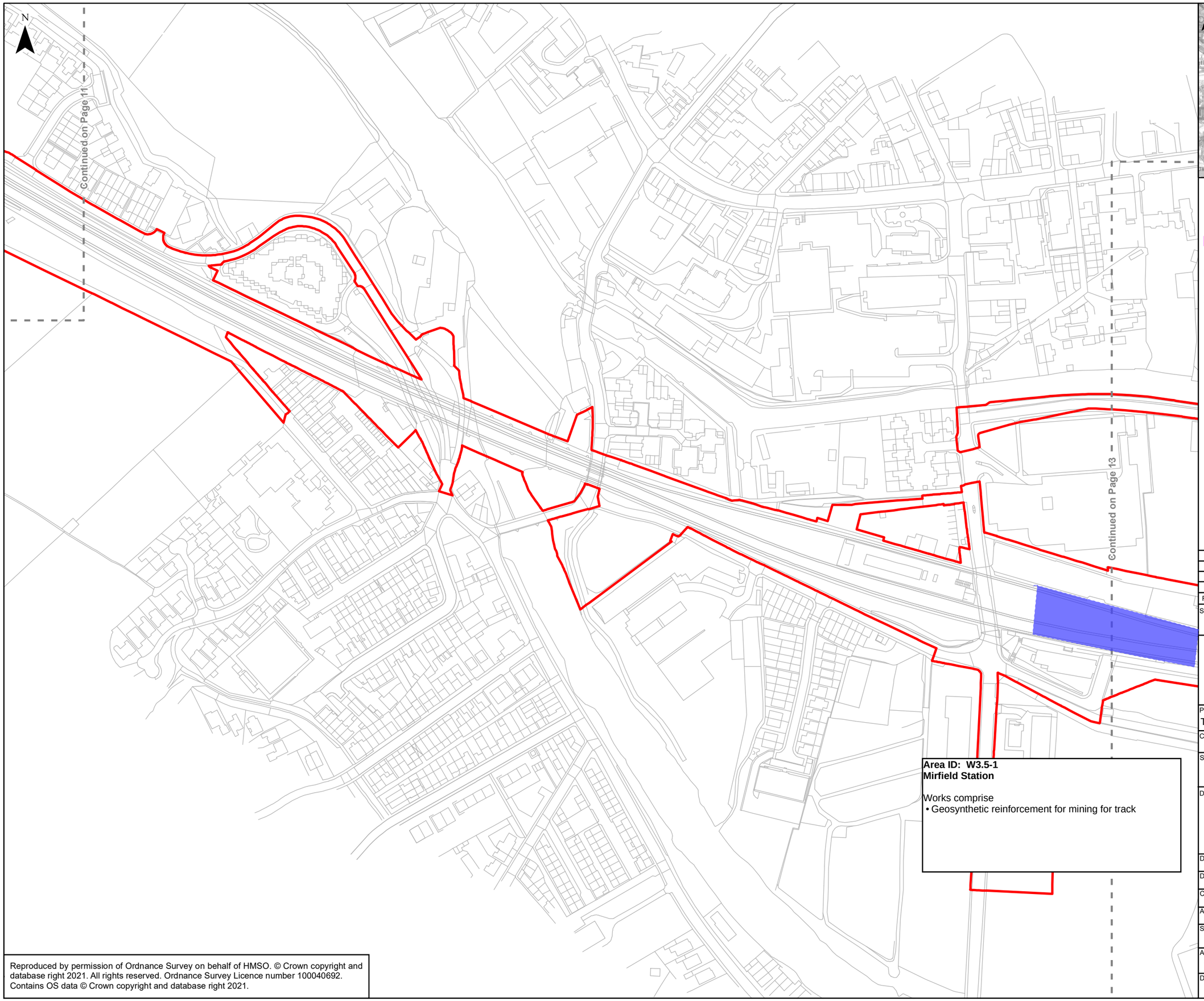
NetworkRail

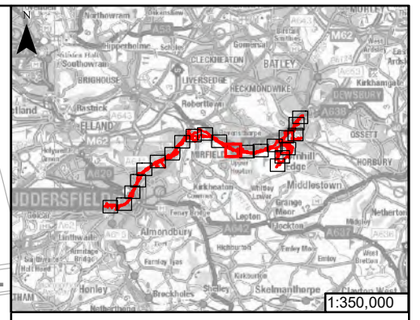
Project: TRANSPENNINE ROUTE UPGRADE
Contract No.: 151667
SchemeTitle: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER
Drawing Title: **Stage 3 works**

Designed	R.Bowes	Signed Electronically	Date 12/02/2021
Drawn	R.Bowes	Signed Electronically	Date 12/02/2021
Checked	P.Butler	Signed Electronically	Date 12/02/2021
Approved	P.Butler	Signed Electronically	Date 12/02/2021

Scale(s): 1:2,500
ELR & Project Chainage: ---
Alternative Reference: ---
Sheet: 8 of 11
Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288
Revision: P04
DRAFT

Sheet Size A3 297 x 420





Scheme Boundary

Adjacent Map Sheet

Probe and grout

Track bed reinforcement

Works to mine shafts and adits

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

SchemeTitle: THE NETWORK RAIL (HUDDERSFIELD TO WESTTOWN (DEWSBURY) IMPROVEMENTS) ORDER

Drawing Title: **Stage 3 works**

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Approved	P.Butler	Signed Electronically	Date 12/02/2021

Scale(s): 1:2,500

ELR & Project Chainage: ---

Alternative Reference: ---

Shee1: 9 of 11

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288

Revision: P04

Sheet Size A3 297 x 420

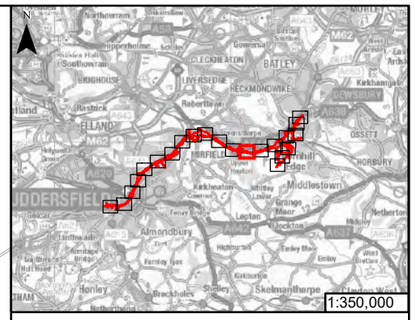
N

Area ID: W3.5-1
Mirfield Station

Works comprise
- Geosynthetic reinforcement for mining for track

Continued on Page 12

Continued on Page 14



Scheme Boundary

Adjacent Map Sheet

Stage 3 works

Probe and grout

Track bed reinforcement

Works to mine shafts and adits

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

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Scale(s): 1:2,500

ELR & Project Chainage: ---

Alternative Reference: ---

Sheet: 10 of 11

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288

Revision: P04

Sheet Size A3 297 x 420

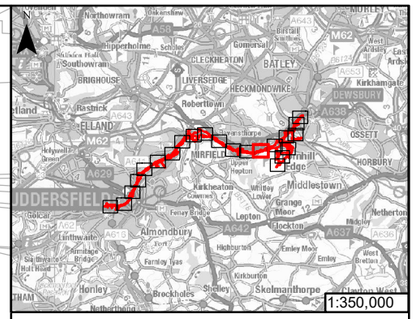
N

Continued on Page 13

Continued on Page 15

Area ID: W3.5-2
West of Sands Lane

Works comprise
- Probe hole at proposed locations of OLE foundations with grouting of voids if encountered.
- Geosynthetic reinforcement for mining for track



Scheme Boundary

Adjacent Map Sheet

Probe and grout

Track bed reinforcement

Works to mine shafts and adits

0 10 20 40 60 80 100 Metres

SCALE 1:2,500

Rev	Date	Description of Revisions	Drwn	Chkd	Appr
P01	12/02/21	FIRST ISSUE	RB	PB	PB

Status: SHARED

Suitability:

NetworkRail

Project: TRANSPENNINE ROUTE UPGRADE

Contract No.: 151667

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Scale(s): 1:2,500

ELR & Project Chainage: ---

Alternative Reference: ---

Sheet: 11 of 11

Drawing Number: 151667-TSA-00-TRU-REP-W-EN-001288

Revision: P04

Sheet Size A3 297 x 420

APPENDIX B – SITE WASTE MANAGEMENT PLAN

Cover Sheet

SNC·LAVALIN

ATKINS
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Key to Cell Shading	Manual Completion	Automated Completion

Project	Huddersfield to Westtown (Dewsbury) Scheme - Stage 3
Job Number	
Date of issue	01/02/2023
File Path	P:\GBMRB\LEGE\Projects\852\Jobs\EAM\5185387 TRU W3 Huddersfield to Westtown (Dewsbury)\TWAO post-submission\Or
File Name	Huddersfield to Westtown Stage 3 SWMP.xlsm
Primary contact name	Alexandra Evans
Primary contact email	alexandra.evans@atkinsglobal.com
Document Sensitivity	

Overview of the spreadsheet (contents/purpose/objective)

This spreadsheet forms the Site Waste Management Plan for Stage 2 of the development. It records basic details on the Scheme, design decisions made to reduce waste and estimated waste quantities. When the Scheme reaches construction phase details on quantities and types of waste generated will be recorded, as well as the details of the contractors collecting and managing the waste.
It is a live document and will be updated throughout the Scheme's lifecycle.

Sources

Add New Source Row | Delete Last Source Row | Reset Sources

	File	Comment
1		
2		
3		

Sheets List

Update Sheets List

Reference Tab
Input Tab
Calculation Tab
Output Tab
Archived Tab

	Sheet Name	Description	Tab Type
1		Basic Details	Reference
2		Design Actions	Input
3		Forecast Waste	Input
4		Reporting	Output
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Document History

SNC·LAVALIN

ATKINS
Member of the SNC-Lavalin Group

Key to Cell Shading | Manual Completion | Automated Completion

Revision	Contents/Changes	Originated	Date	Checked	Date	Reviewed	Date	Authorised	Date
1	Draft for planning	PB	01/02/2023						
2									
3									
4									
5									

Basic Details

Client name :	Network Rail
Principal contractor :	BAM Nuttall
Owner of document :	Alexandra Evans
Project title :	Network Rail (Huddersfield to Westtown (Dewsbury) Improvements) Order - Stage 3
Project location :	Huddersfield to Westtown (Dewsbury)
Construction value :	
Type of construction :	Railways
Activity :	Both (new build and refurb)

Project targets

Please select project targets applicable to your project

KPI	Phase	Target	Unit
Waste arisings	All	90	t
Waste recovery	Demolition	90	%
Waste recovery	Excavation	95	%
Waste recovery	Constructio	90	%

Schedule

Start date :	01-Jun-23	dd/mm/yy
Completion date :		dd/mm/yy

Position	Name	Contact Details
Client	Network Rail	
Principal Contractor	BAM Nuttall	
Site Waste Management Plan Drafter	Alexandra Evans	alexandra.evans@atkinsglobal.com

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document / drawing	Waste stream	Material type	Date for completion (dd/mm/yyyy)	Status
1	Waste Reduction Action	Design work will seek to ensure excavation waste such as soils and track ballast will be reused on site where possible. Following which the priority for materials will be off-site re-use before recycling, following the waste hierarchy.	BAM	TBC	Other C&D segregated waste	track ballast other than those mentioned in 17 05 07		
2	Waste Reduction Action	Design work will seek to ensure excavation waste such as soils and track ballast will be reused on site where possible. Following which the priority for materials will be off-site re-use before recycling, following the waste hierarchy.	BAM	TBC	Other C&D segregated waste	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03		
3	Waste Prevention Action	The detailed design stage and proposed construction methods seek to minimise the loss of vegetation on site.	BAM	TBC	Other C&D segregated waste	biodegradable waste		
4	Waste Prevention Action	The Alliance will consider setting off-cut/surplus targets for sub-contractors with a positive incentive scheme for on-site waste champions. Setting targets at design stage that are incorporated into procurement is recommended.	BAM	TBC	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03		
5	Waste Reduction Action							
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Waste Actions

Enter actions in the next available row below

Number	Type of Waste Action	Action Taken	Action owner	Reference to project document / drawing	Waste stream	Material type	Date for completion (dd/mm/yyyy)	Status
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								

Forecast Waste

C, D or E Activity	Waste Stream	Material Type	Further description of waste - optional	Suggested LOW Code	Waste or Re-Use	Forecast Quantities (m^3)	Forecast Quantities (tonnes)	Calculated Quantities (Converting between m^3 and t) (m^3)	Calculated Quantities (Converting between m^3 and t) (tonnes)	Forecast provided by
Excavation	*Packaging*	*plastic packaging*	*plastic packaging*	*15 02 02*	*Off-site destination*	*###*	*###*	*###*	*###*	*A.N Other*
Construction	Other C&D segregated waste	mixed municipal waste	Waste from personnel undertaking work such as food and drink packaging etc - nominal figure due to difficulty in estimating	20 03 01	Off-site mixed			0.00	0.00	Alexandra Evans
Construction	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	Offcuts, damaged items etc - nominal figure due to difficulty in estimating	17 09 04	Off-site mixed			0.00	0.00	Alexandra Evans
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	

Forecast Waste

						Forecast Quantities		Calculated Quantities (Converting between m^3 and t)		
C, D or E Activity	**Waste Stream**	**Material Type**	**Further description of waste - optional**	**Suggested LOW Code**	**Waste or Re-Use**	**(m^3)**	**(tonnes)**	**(m^3)**	**(tonnes)**	**Forecast provided by**
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
Construction	Packaging	plastic packaging	Packaging from newly installed items such as toilets, lockers, tables, chairs etc - nominal figure due to difficulty in estimating	15 01 02	Off-site segregated			0.00	0.00	
Construction	Packaging	wooden packaging	Packaging from newly installed items such as toilets, lockers, tables, chairs etc - nominal figure due to difficulty in estimating	15 01 03	Off-site segregated			0.00	0.00	
Construction	Other C&D segregated waste	mixed municipal waste	Waste from personnel undertaking work such as food and drink packaging etc - nominal figure due to difficulty in estimating	20 03 01	Off-site mixed			0.00	0.00	
Construction	Mixed C&D waste (17 09 04)	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	Offcuts, damaged items etc - nominal figure due to difficulty in estimating	17 09 04	Off-site mixed			0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	
								0.00	0.00	

View data in: tonnes

Reporting

Combined stages C,D and E

Construction

Demolition

Excavation

	Forecast		Actual	
	m^3	Tonnes	m^3	Tonnes
Total Waste	-	-		
Total Waste to landfill	0	0		
% Waste diverted from landfill	#DIV/0!	#DIV/0!		
% Materials reused on site	#DIV/0!	#DIV/0!		

Combined stages C, D and E

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
	Inert - Building rubble												
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
	13 05 01*												
	13 05 03*												
	13 05 06*												
	13 07 01*												
	14 06 01*												
	14 06 02*												
	14 06 03*												
	14 06 04*												
	14 06 05*												
	15 01 01												
	15 01 02												
	15 01 03												
	15 01 04												
	15 01 05												
	15 01 06												
	15 01 07												
	15 01 09												
	15 01 10*												
	15 01 11*												
	15 02 02*												
	15 02 03												
	16 01 03												
	16 01 07*												
	16 02 09*												
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	17 04 04												
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	17 04 11												
	17 05 03*												
	17 05 04												
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	20 01 08												
	20 01 11												
	20 01 21*												
	20 01 23*												
	20 01 25												
	20 01 35*												
	20 01 36												
	20 01 99												
	20 02 01												
	20 03 01												
	20 03 03												
	20 03 04												
	20 03 06												
	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

		Recovery of materials and wastes											
		Re-used				Recycled				Energy recovery			
		off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
	Inert - Building rubble												
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
	13 05 01*												
	13 05 03*												
	13 05 06*												
	13 07 01*												
	14 06 01*												
	14 06 02*												
	14 06 03*												
	14 06 04*												
	14 06 05*												
	15 01 01												
	15 01 02												
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	20 03 03												
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	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

Construction

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals											FALSE	
	Wood												
	Packaging											FALSE	
	Inert - Building rubble											FALSE	
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste											FALSE	
	Segregated Haz Waste											FALSE	
	Other C&D segregated waste											FALSE	
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
	13 01 13*												
	13 05 01*												
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	20 03 03												
	20 03 04												
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	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

		Recovery of materials and wastes											
		Re-used				Recycled				Energy recovery			
		off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total													
Class	Non Haz (Inert)												
	Haz												
	Non Haz (Non Inert)												
Assigned Waste Stream	Inert - Soil & stones												
	Non Haz (Non Inert) - Soil & stones												
	Non Haz (Non Inert) - Dredgings												
	Segregated Haz - Soil & stones												
	Gypsum												
	Metals												
	Wood												
	Packaging												
	Inert - Building rubble												
	Inert - Glass												
	Mixed Hazardous - C&D waste												
	Mixed C&D waste												
	Segregated Haz Waste												
	Other C&D segregated waste												
List of Waste (LOW) Code	08 01 11*												
	08 01 12												
	08 01 13*												
	08 01 14												
	08 01 18												
	08 03 18												
	13 01 12*												
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	13 05 01*												
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	20 03 06												
	20 03 07												
	08 01 19												
	13 01 11*												
	13 02 08*												
	16 05 07*												
	10 11 03												
	20 01 02												
	20 01 39												

Demolition

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)		Recovery of materials and wastes											
														Re-used				Recycled				Energy recovery			
														off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total																									
Class	Non Haz (Inert)																								
	Haz																								
	Non Haz (Non Inert)																								
Assigned Waste Stream	Inert - Soil & stones																								
	No Haz (Non Inert) - Soil & stones																								
	Non Haz (Non Inert) - Dredgings																								
	Segregated Haz - Soil & stones																								
	Gypsum																								
	Metals																								
	Wood																								
	Packaging																								
	Inert - Building rubble																								
	Inert - Glass																								
	Mixed Hazardous - C&D waste																								
	Mixed C&D waste																								
	Segregated Haz Waste																								
	Other C&D segregated waste											FALSE													
List of Waste (LOW) Code	08 01 11*																								
	08 01 12																								
	08 01 13*																								
	08 01 14																								
	08 01 18																								
	08 03 18																								
	13 01 12*																								
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	16 05 07*																								
	10 11 03																								
	20 01 02																								
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Excavation

		Waste and material arisings		Waste sent offsite		Materials kept onsite		Sent to landfill		Diverted from landfill		Cost of waste disposal (offsite)		Recovery of materials and wastes											
														Re-used				Recycled				Energy recovery			
														off-site		on-site		off-site		on-site		off-site		on-site	
Forecast/Actual		F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A	F	A
Unit		tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	£	£	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes	tonnes
Total																									
Class	Non Haz (Inert)																								
	Haz																								
	Non Haz (Non Inert)																								
Assigned Waste Stream	Inert - Soil & stones											FALSE													
	Non Haz (Non Inert) - Soil & stones																								
	Non Haz (Non Inert) - Dredgings																								
	Segregated Haz - Soil & stones											FALSE													
	Gypsum																								
	Metals																								
	Wood																								
	Packaging																								
	Inert - Building rubble																								
	Inert - Glass																								
	Mixed Hazardous - C&D waste																								
	Mixed C&D waste																								
	Segregated Haz Waste																								
	Other C&D segregated waste																								
List of Waste (LOW) Code	08 01 11*																								
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