



**TARMAC LIMITED**

**APPLICATION FOR AN ENVIRONMENTAL PERMIT VARIATION**

**OLD QUARRINGTON QUARRY LANDFILL**

**NON-TECHNICAL SUMMARY**

**OCTOBER 2021**

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**NON-TECHNICAL SUMMARY**

**OCTOBER 2021**

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## CONTENTS

1	INTRODUCTION.....	1
2	THE SITE .....	1
3	SITE OPERATIONS .....	2
4	ENVIRONMENTAL RISK AND MITIGATION.....	3

## DRAWINGS

Q003-00197-47      Extant Permit Boundary and Proposed Permit Extension Area

## 1 INTRODUCTION

- 1.1 Tarmac Limited operate Old Quarrington Quarry Landfill at Quarrington Hill, Durham. The site operates under permit EPR/BB3007CA, which allows for the import of 300,000 tonnes per annum of inert waste materials for landfilling.
- 1.2 The southern boundary of the site is formed of an escarpment and the boundary of Cold Knuckle Quarry. Tarmac Limited are applying for a permit variation to extend the permitted area of Old Quarrington Quarry Landfill to incorporate the escarpment, which is to be removed and the resultant void filled with inert waste. The increased total void is calculated as 400,000m<sup>3</sup>. There will be no change to the annual permitted inputs.
- 1.3 The site is located within a rural setting, with the town of Quarrington Hill located to the south east. The site location is discussed further in Section 2.
- 1.4 The site accepts clean inert wastes only for use in landfilling. Site operations are discussed further in Section 3.
- 1.5 The site is designed and operated to provide comprehensive environmental protection from any potential risks. Further information is provided in Section 4.
- 1.6 The application comprises:
  - Application Forms:
    - Part A (About You)
    - Part C2 (Varying a Bespoke Permit)
    - Part C4 (Varying a Bespoke Waste Operation Permit)
    - Part F1 (Charges and Declarations)
  - Non-Technical Summary;
  - Environmental Setting and Site Design;
  - Amenity and Accident Risk Assessment;
  - Stability Risk Assessment;
  - Hydrogeological Risk Assessment Review; and
  - Financial Provision spreadsheet.

## 2 THE SITE

- 2.1 Old Quarrington Quarry Landfill is located at Quarrington Hill, Durham, grid reference NZ 33140 37820. The site is bound to the north and east by fields, by the Cold Knuckle Quarry void and an escarpment to the south, and an area of grassland and trees to the west. A small private road is located beyond the trees to the west, and a small road is

also located to the east.

- 2.2 The site is accessed via roads to the east and south west. These are located off the A688 road to the west and Church Street to the east respectively.
- 2.3 There are a number of sensitive receptors within the vicinity of the site. These include:
  - Crow Trees Local Nature Reserve (LNR) immediately to the south;
  - Quarrington Hill Grasslands Site of Special Scientific Interest (SSSI) 250m to the south;
  - Quarrington Village 300m to the south east;
  - Cassop Vale SSSI 350m to the north;
  - Cassop Vale National Nature Reserve (NNR) 350m to the north;
  - Old Quarrington Village 500m to the west; and
  - Little Wood LNR 530m to the south east.
- 2.4 The site is located in a groundwater Source Protection Zone 3.
- 2.5 The site is underlain by sands of the Yellow Sands Formation to the west and south west. The remainder of the site is underlain by dolostone of the Raisby Formation to the north and east, and Mudstone, Siltstone and Sandstone of the Pennine Middle Coal Measures Formation to the south east. Superficial deposits at the site are formed of Diamicton.
- 2.6 The permitted site boundary is shown on drawing Q003-00197-47.

### **3 SITE OPERATIONS**

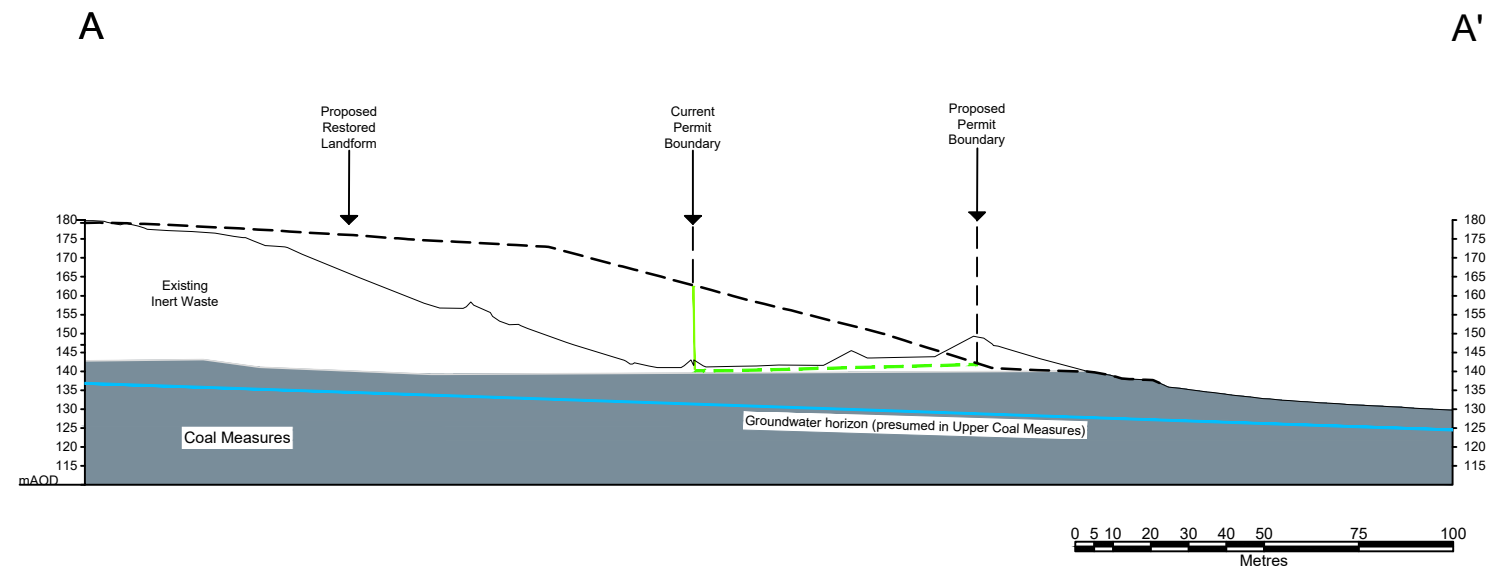
- 3.1 The Old Quarrington Quarry Landfill permit is to be varied to allow for an increase in the permitted area for landfilling. The proposed permit extension area is shown in drawing Q003-00197-47. Calculations show that this extension will increase the capacity by 400,000m<sup>3</sup>.
- 3.2 Limestone and sand are to be removed along the boundary with Cold Knuckle Quarry, and the resultant void will be filled with imported inert wastes. The import of inert waste will enable Tarmac to achieve the agreed restoration profile for the site.
- 3.3 No changes are being proposed to the previously approved restoration profile or phasing scheme.
- 3.4 Operations at the site will meet the requirements of Environment Agency guidance “Landfills for Inert Waste” and will be undertaken in accordance with Tarmac’s environmental management system which is accredited to ISO 14001.
- 3.5 Incoming inert wastes will continue to be subject to acceptance checks and will be

inspected prior to deposit. This will ensure that the material is clean and meets defined waste acceptance criteria.






#### **4 ENVIRONMENTAL RISK AND MITIGATION**

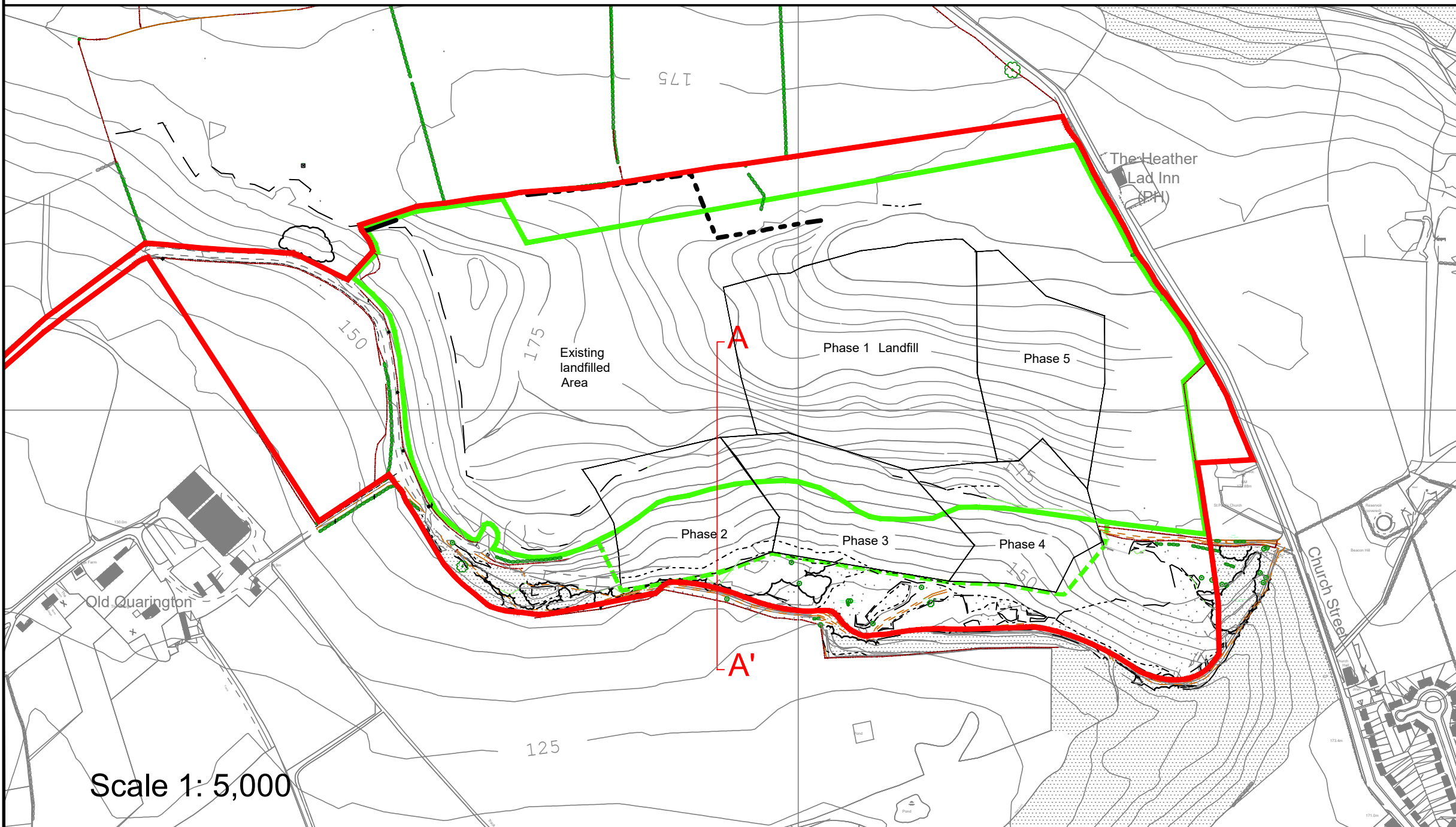
- 4.1 There will be no change to the environmental risk profile as landfilling will still be limited to 300,000 tonnes per annum under the variation. All risks that are associated with the landfilling activities are understood and will continue to be properly managed.
- 4.2 Stringent environmental protection procedures are currently in place at the Old Quarrington Quarry Landfill, ensuring that there will be no fugitive emissions of dust, noise or mud from site activities. These will be maintained during the activities relating to this variation.
- 4.3 Regular checks will continue to be made around the site boundary and should noticeable odour, dust or litter be detected the source will be identified and remedial action will be taken as soon as possible.
- 4.4 Measures to prevent the generation of mud will continue to include the provision of a wheel wash and cleaning of site roads as necessary.
- 4.5 The clean inert materials accepted at the site are not inherently odorous.
- 4.6 Operations at the site will continue to be restricted to daytime hours. All plant and equipment will continue to be maintained in accordance with the manufacturer's recommendations to ensure that it works correctly and without producing excessive noise.
- 4.7 Noise levels are taken into consideration during the purchase of new equipment with quieter models being utilised where this is practical and economically viable.
- 4.8 Staff are suitably trained for their roles onsite. Inductions are provided for contractors working at the site. Only suitably qualified staff are authorised to operate plant and equipment.

## **DRAWINGS**



### Legend

-  Planning Boundary
-  Quarry Extraction Boundary
-  Environmental Permit Boundary
-  Permit Variation Application Boundary
-  Phase 1 Landfill Phasing Boundary



Site Name:  
Q003 - Old Quarrington

Drawing Name:  
Proposed Restoration Contours

Drawn By:  
M Donaldson

Scale @ A3:  
1 : 10 000

Date:  
March 2021

Drawing Number:  
Q003-00197-47





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