

784-B043634

Castle Hill Quarry

Non-Technical Summary

Environmental Permit Application

Castle Hill Quarry Co. Limited

April 2023

**Document prepared on behalf of Tetra Tech Limited. Registered in England number:
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1.0 INTRODUCTION

1.1 APPLICATION REQUIREMENTS

- 1.1.1 This Environmental Permit Application has been prepared by Tetra Tech on behalf of the Operator, Castle Hill Quarry Co. Limited (CHQC) in accordance with the requirements of the Environmental Permitting (England and Wales) Regulations 2016 as amended.
- 1.1.2 CHQC currently operate a site known as Castle Hill Quarry at Cannington, Bridgwater, TA5 2QF. The current quarry site is centred at approximate National Grid Reference (NGR) ST 24562 40684 and comprises an active limestone quarry site which is extracted and processed on site to provide aggregates for the construction industry, carboniferous lime for agricultural use and limestone products to the animal feedstuffs industry.
- 1.1.3 This application relates to two extension areas at the quarry. The first area (known as 'Eastern Extension') is located to the south east of the existing quarry and is centred at approximate NGR ST 24834 40637. The second area (known as 'Old Golf Course Extension'), is located to the south of the Eastern Extension and is centred at approximate NGR ST 24834 40637. The location of both extension areas is shown on Drawing Number CHQC/B043634/PER/01.
- 1.1.4 In February 2017, a planning application was submitted Somerset County Council (SCC) for the extraction of limestone, infilling with imported materials including waste and restoration to woodland and pasture (reference 1/13/17/00012). The application was submitted to facilitate works in the Eastern Extension Area. Planning permission was granted in June 2019 by a Planning Inspector on appeal for non-determination (reference APP/G3300/W/18/3202520).
- 1.1.5 In November 2021, a further planning application (reference SCC/3894/2021) was submitted to SCC facilitate another extension to extraction and infilling activities in the 'Old Golf Course Extension' Area.
- 1.1.6 In order to facilitate the restoration of the extension areas, CHQC are seeking to gain a bespoke waste recovery permit for the permanent deposit of inert waste to land.

2.0 NON-TECHNICAL SUMMARY

2.1 APPLICATION FORMS

- 2.1.1 Forms A, B2, B4 and F1 have been included as part of this application. These forms are provided as Appendix A.

2.2 TECHNICAL ABILITY

Part B2, Section 3b

- 2.2.1 The site will be managed by an individual who possesses the required level of technical competence.
- 2.2.2 Evidence of technical competence for the site has been provided as part of the Operating Techniques (Appendix C of the Environmental Permit Application).

2.3 MANAGEMENT SYSTEM

Part B2, Question 3d

- 2.3.1 The site will have an appropriate environmental management system in place which meets the Environment Agency's (EA) requirements on management systems. A summary of CHQC's environmental management system is provided as part of the Operating Techniques (Appendix C of the Environmental Permit Application).

2.4 SITE PLAN

Part B2, Question 5a

- 2.4.1 In accordance with the guidance notes provided in Part B2 application form, a site plan (Drawing Reference CHQC/B043634/PER/01) has been prepared.

2.5 SITE CONDITION REPORT

Part B2, Question 5b

- 2.5.1 As required under the EA Regulatory Guidance Note RGN 9 – Surrender, a Site Condition Report (Appendix K) has been prepared regarding the areas of the site that will not be used for the permanent deposits of wastes.

2.6 ENVIRONMENTAL RISK ASSESSMENT

Part B2, Question 6

- 2.6.1 An Environmental Risk Assessment (Appendix D) has been prepared to consider the potential impact of the proposed activity. The Environmental Risk Assessment (ERA) is concerned with the nature and extent of any linkages between the source of any environmental hazards and the receptors which may be susceptible to harm; such linkages being termed pathways. Where potential for harm is identified, the assessment identifies the management techniques which will be utilised to mitigate such impacts.

2.7 WASTE RECOVERY PLAN

- 2.7.1 Once planning permission was secured for the Eastern Extension area, a Waste Recovery Plan (WRP) was submitted to the EA in July 2019 and was subsequently approved as detailed within EA Letter reference EPR/HB3606SS/A001 dated 4th December 2019. A copy of the approved WRP and advice letter is provided as Appendix B of this application.
- 2.7.2 A separate WRP has been prepared for the Old Golf Course Extension Area to demonstrate how the proposed activity in this area meets the waste recovery test. A copy of the WRP is provided as Appendix B of this application

2.8 GENERAL REQUIREMENTS

Part B4, Table 3b

- 2.8.1 According to the EA's 'Control and Monitor Emissions for your Environmental Permit' guidance, a Dust Management Plan must be prepared to support an application that comprises the 'recovery of household, commercial or industrial waste by deposit for recovery'. As such, a Dust Management Plan (Appendix J of the Environmental Permit Application) has been prepared to describe the measures that will be in place to prevent occurrence of dust from the proposed activities.
- 2.8.2 CHQC propose to accept waste streams that are permitted under the standard rules set SR2015 No39 'use of waste in a deposit for recovery operations'. These waste streams are not putrescible in nature therefore will not biodegrade to produce offensive odours. As such, an Odour Management Plan has not been prepared to support the Environmental Permit Application. .

2.9 MONITORING

Part B4, Question 4a

- 2.9.1 An Environmental Management and Monitoring Plan (EMMP) outlines the monitoring requirements for the site. The EMMP is provided as Appendix I of the Environmental Permit Application.

2.10 SPECIFIC QUESTIONS FOR INERT WASTE LANDFILL AND DEPOSIT FOR RECOVERY OPERATION

Part B4, Appendix 2

Environmental Setting and Site Design Report (Question 1)

- 2.10.1 According to the EA's 'Landfill Operators: Environmental Permits' guidance an Environmental Setting and Site Design (ESSD) report is required for an application that comprises an inert landfill or a deposit for recovery activity. As such an ESSD (Appendix E) has been prepared to describe the regulated facility in relation to the environmental setting, identifying the source terms, pathways and receptors that will be used as the basis for the risk assessments provided.

Waste Acceptance Procedures (Question 2)

- 2.10.2 Details of the site's waste acceptance procedures for the site are provided in the Operating Techniques. A copy of this document is provided in Appendix C of the Environmental Permit Application.

Hydrogeological Risk Assessment (Question 3)

- 2.10.3 A Hydrogeological Risk Assessment (HRA) has been prepared to provide the geological and hydrogeological setting of the site allowing the development of a conceptual model to determine the risk that the facility will pose to underlying groundwater. A copy of the HRA is provided as Appendix F of the Environmental Permit Application.

Outline Engineering Plan (Question 4)

- 2.10.4 Details regarding the engineering of the site are provided in the ESSD (Appendix E of the Environmental Permit Application).

Stability Risk Assessment (Question 5)

- 2.10.5 A Stability Risk Assessment (Appendix G) has been prepared documents the structural and physical ability of the site over its entire life cycle.

Monitoring Plan (Question 6)

- 2.10.6 As mentioned in Section 2.9.1, an EMMP (Appendix I) has been prepared to detail the monitoring requirements for the site.

APPENDIX A - APPLICATION FORMS

APPENDIX B – WASTE RECOVERY PLAN

APPENDIX C – OPERATING TECHNIQUES

APPENDIX D – ENVIRONMENTAL RISK ASSESSMENT

APPENDIX E – ENVIRONMENTAL SETTING AND SITE DESIGN

APPENDIX F – HYDROGEOLOGICAL RISK ASSESSMENT

APPENDIX G – STABILITY RISK ASSESSMENT

APPENDIX H – GAS SCREENING REPORT

APPENDIX I – ENVIRONMENTAL MANAGEMENT & MONITORING PLAN

APPENDIX J – DUST MANAGEMENT PLAN

APPENDIX K – SITE CONDITION REPORT