

Carbrooke Quarry Eastern Extension

Environmental Permit Application

Non-Technical Summary

Mick George Limited

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Prepared on Behalf of Tetra Tech Environment Planning Transport Limited.
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1.0 NON-TECHNICAL SUMMARY

1.1 PERMIT APPLICATION

- 1.1.1 This Environmental Permit Application has been prepared by Tetra Tech on behalf of the Operator Mick George Limited (Mick George), in connection to Carbrooke Quarry Eastern Extension (the site), Land off Mill Lane, Carbrooke, Norfolk, IP25 6TD.
- 1.1.2 The site is located approximately 580m south of the village of Carbrooke, 1km north of the village of Griston and 1.2km east of the town of Watton. The site is centred at the approximate National grid Reference (NGR) TF 95215 01069 and the environmental permit boundary is shown on Drawing Number MGL/B032575/PER/01.
- 1.1.3 Access to the site can be gained via the existing site entrance located off Mill Lane. The site sits within an area of agricultural land with quarrying operations in the immediate vicinity. The site is bounded by arable farmland to the north which extends to the east of the site beyond Cuckoo Lane located along the eastern boundary of the site.
- 1.1.4 The B1108 (Norwich Road) bounds the site to the south along with an area of deciduous woodland and farming infrastructure. Approximately 1km southwest of the site is the former RAF Watton site. To the west of the site is Mill Lane beyond which is land occupied by quarrying and aggregate operations.
- 1.1.5 Planning permission for the site was originally granted by Norfolk County Council (NCC) in 2007 which authorised the 'extraction of sand and gravel with continued processing, stockpiling, weighing and sale of mineral'. In August 2018, planning permission (ref. C/3/2018/3004) was granted by NCC to vary Condition 2 of planning permission C/3/2007/3006 to extend operations from 2019 to 2027.
- 1.1.6 In April 2022, a planning application (reference FUL/2022/0011) was submitted to NCC for the 'restoration of quarry to agriculture with enhanced landscaping using inert materials and use of existing Summer Lane access for mineral relates HGV movements'.
- 1.1.7 To facilitate the restoration of the site as proposed under planning application FUL/2022/0011, Mick George seeks to gain a bespoke waste disposal permit for the permanent deposit of inert waste at the site.
- 1.1.8 This application is accompanied by all relevant documentation, as required by the aforementioned Regulations, and in the format set out in the Environment Agency guidance documents. In summary, these documents comprise:-

- Application Forms A, B2, B4 and F1;
- Operating Techniques
- Environmental Setting and Site Design
- Environmental Risk Assessment
- Stability Risk Assessment
- Hydrogeological Risk Assessment
- Landfill Gas Screening Report
- Environmental Management and Monitoring Plan
- Closure and Aftercare Plan
- Dust Management Plan
- Financial Provision

1.1.9 Specific details of the operations at the site are provided in the Operating Techniques (Appendix B), which describes both the operational techniques and management procedures to be carried out at the site. In summary, this document provides details of:-

- Waste types and waste acceptance criteria;
- Site records;
- Emissions control;
- Incidents and non-conformance procedures;
- Accident management; and
- Emergency procedures.

1.1.10 The Environmental Setting and Site Design report (Appendix C) describes the site in relation to the environmental setting, identifying the source terms, pathways and receptors that have been used as the

basis for the risk assessments, including the Hydrogeological Risk Assessment and the Environmental Risk Assessment.

- 1.1.11 The Environmental Risk Assessment (Appendix D) addresses 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 engineering or management techniques, which will mitigate such impacts. This report is supported by a Nature and Heritage Conservation Screen that was requested from the Environment Agency (Reference (EPR/KB3901SB/A001)). This screen determines the presence of any sites of nature and heritage conservation, or protected species or habitats that may be impacted by the proposal.
- 1.1.12 A Hydrogeological Risk Assessment (Appendix E) provides 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.
- 1.1.13 A Stability Risk Assessment (Appendix F) documents the structural and physical ability of the landfill over the entire life cycle of the landfill.
- 1.1.14 The Landfill Gas Screening Report (Appendix G) determines the risks presented by the placement of materials on surrounding receptors.
- 1.1.15 The Environmental Management and Monitoring Plan (Appendix H) outlines the pre-operational, operational and post-operational monitoring requirements associated with the permit application. This includes monitoring requirements with regards to groundwater, perimeter monitoring boreholes, in waste monitoring boreholes and the monitoring of the landfill body in accordance with relevant technical guidance.
- 1.1.16 The Dust Management Plan (Appendix I) identifies the potential causes and effects of dust and describes the measures that will be in place to prevent occurrence of dust at the site.
- 1.1.17 The Closure and Aftercare Plan (Appendix J) demonstrates how the landfill will be maintained following cessation of filling activities to avoid any risk of pollution to the point of surrender of the Environmental Permit.
- 1.1.18 Financial Provision (Appendix K) shows all associated costs of environmental monitoring, restoration, monitoring, reports, site reports and security.
- 1.1.19 According to the Environment Agency's Regulatory Guidance Note RGN 9 – Surrender, a Site Condition Report is only required for areas of a landfill that will not be used for the permanent deposits of wastes. For

this site, the whole permit area will be worked for sand and gravel and therefore will be infilled with inert waste. As such, it's considered that a Site Condition Report is not required to support this application.

- 1.1.20 In addition to the documents provided above, consideration has been given to the risk of noise. As noted in Section 1.1.3, the site sits within an area of agricultural land with quarrying operations in the immediate vicinity. The nearest residential property to the site is Mill House which is located to the south of the site off Mill Lane. At present, there is a condition within an existing planning permission (reference C/3/2018/3004) that states the following:-

“Noise emitted from the site shall not exceed 55 dB expressed as 1 hour LAeq as measured at the nearest point on the site boundary adjacent to Mill House”

- 1.1.21 In addition to the above, discussions have taken place with NCC as part of the current planning application (ref FUL/2022/0011). As part of these discussions, NCC advised that a Noise Assessment would not be required to support the planning application on the basis that the proposal will solely comprise infilling and that there are noise limits within the existing planning permission that would need to be complied with.
- 1.1.22 In light of the above, it's considered that a Noise Impact Assessment (NIA) and a Noise Management Plan (NMP) is not required to support the environmental permit application.

DRAWINGS

MGL/B032575/PER/01 – Site Location and Environmental Permit Boundary

APPENDIX A – APPLICATION FORMS

APPENDIX B – OPERATING TECHNIQUES

APPENDIX C – ENVIRONMENTAL SETTING AND SITE DESIGN

APPENDIX D – ENVIRONMENTAL RISK ASSESSMENT

APPENDIX E – HYDROGEOLOGICAL RISK ASSESSMENT

APPENDIX F – STABILITY RISK ASSESSMENT

APPENDIX G – LANDFILL GAS SCREENING REPORT

APPENDIX H – ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

APPENDIX I – DUST MANAGEMENT PLAN

APPENDIX J – CLOSURE AND AFTERCARE PLAN

APPENDIX K – FINANCIAL PROVISION