Stanboroughbury Quarry

Environmental Permit Application

Non-Technical Summary

December 2020

Prepared on behalf of CEMEX UK Materials Limited

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Document control

Document:	Non-Technical Summary
Project:	Stanboroughbury Environmental Permit Application
Client:	Cemex UK Materials Limited
Job Number:	A117272
File Origin:	\\SOUTHAMPTON14\Data\Projects\Cemex UK Operations (C05081)\A117272 (Stanboroughbury Environmental PA)\Reports

Revision:	Final (Submission to the Environment Agency)	
Date:	December 2020	
Prepared by: Michaela Fry	Checked by: Alice Shaw	Approved By: Andrew Bowker

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1.0 Introduction

1.1 Application Requirements

1.1.1 This Environmental Permit Application has been prepared by WYG on behalf of the Operator, CEMEX UK Materials Limited (CEMEX), in accordance with the requirements of the Environmental Permitting (England and Wales) Regulations 2016 as amended.

1.1.2 In 2018, CEMEX submitted a planning application (reference PL/0963/18) to Hertfordshire County Council for the following:-

"extraction and processing of approximately 3.52 million tonnes (MT) of sand and gravel from a site of some 117ha, known as Land adjoining Coopers Green Lane, involving the retention of the existing quarry access and site infrastructure, and the provision of new conveyor tunnels, vehicular surface crossings and new/upgraded vehicular accesses from Coopers Green Lane and Green Lanes for the importation of approximately 3.1mt of inert material for restoration of the site to agriculture, seasonal ponds, wetland areas and woodland planting."

1.1.3 For the purposes of this application, the land that's referenced in the above planning permission is referred to as Stanboroughbury Quarry (the site) and comprises four parcels of land known as 'Furse Field', 'Astwick', 'Stanboroughbury Triangle' and 'Stanboroughbury Farm' (as shown on Drawing Number P21/597/1). All four areas of land are located to the east of the existing Hatfield Quarry site which is currently operated by CEMEX.

1.1.4 In order to facilitate the restoration works, CEMEX seeks to utilise inert waste material and therefore seeks to gain a bespoke waste disposal permit for the permanent deposit of inert waste.

2.0 Non-Technical Summary

2.1 Permit Application

2.1.1 This Environmental Permit Application is submitted to the Environment Agency (EA) by the operator, CEMEX, under the requirements of the Environmental Permitting (England and Wales) Regulations as amended in 2016. It is a requirement of these Regulations that any application is accompanied by a Non-Technical Summary of the submitted documentation.

2.1.2 Stanboroughbury Quarry is located to the east of the existing Hatfield Quarry site which is operated by CEMEX. The existing quarry site extends approximately 2.6km south west and 2km north from the proposed Stanboroughbury Quarry site (as shown on Drawing Number P21/597/1).

2.1.3 Stanboroughbury Quarry comprises four parcels of land known as 'Furse Field', 'Astwick', 'Stanboroughbury Triangle' and 'Stanboroughbury Farm'. The site is on the periphery of Hatfield Garden Village and approximately 2km North west of Hatfield town centre, with the A1 to the East of the site, Coopers Green Lane to the West and Hartfield Avenue to the South. The site is centred at National Grid Reference (NGR) TL 21248 10652 and the site location and boundary are detailed on Drawing Number CEM/A117272/PER/01.

2.1.4 In 2018, CEMEX submitted a planning application for the following:-

"extraction and processing of approximately 3.52 million tonnes (MT) of sand and gravel from a site of some 117ha, known as Land adjoining Coopers Green Lane, involving the retention of the existing quarry access and site infrastructure, and the provision of new conveyor tunnels, vehicular surface crossings and new/upgraded vehicular accesses from Coopers Green Lane and Green Lanes for the importation of approximately 3.1mt of inert material for restoration of the site to agriculture, seasonal ponds, wetland areas and woodland planting."

2.1.5 As mentioned in the proposal, approximately 3.1 million tonnes of material is required in order to complete the proposed restoration scheme.

2.1.6 In order to facilitate the restoration works, CEMEX seeks to utilise inert waste material and therefore seeks to gain a bespoke waste disposal permit for the permanent deposit of inert waste.

2.1.7 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;
- Gas Screening Report;
- Dust Management Plan;
- Site Condition Report
- Environmental Management and Monitoring Plan;
- Closure and Aftercare Plan;
- Climate Change Assessment; and
- Expenditure plan.

2.1.8 Specific details on the operations of the site are provided in the Operating Techniques (Appendix B), which describes both the operational techniques and management procedures 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.

2.1.9 The Environmental Risk Assessment (Appendix C) 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 engineering or management technique, which will mitigate such impacts. A Nature and Heritage Screening report was produced by the Environment

Agency detailing important sites for Nature and Heritage Conservation within the vicinity of the application site. The Nature and Heritage Screening Report can be found in Appendix B of the Environmental Risk Assessment.

2.1.10 The Environmental Setting and Site Design (Appendix D) describes 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.

2.1.11 The Stability Risk Assessment (Appendix E) documents the structural and physical ability of the landfill over the entire life cycle of the landfill.

2.1.12 The Hydrogeological Risk Assessment (Appendix F) 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.

2.1.13 The Landfill Gas Screening Report (Appendix G) determines the risks presented by the placement of materials on surrounding receptors.

2.1.14 The Dust Management Plan (Appendix H) implements the source, receptor and pathway model to determine the impact of dust arising from the proposed activities and provides a management plan to minimise/prevent the likelihood of the potential effects becoming significant.

2.1.15 As required under the Environment Agency's Regulatory Guidance Note RGN 9 – Surrender, a Site Condition Report (Appendix I) has been prepared regarding the areas of the site that will not be used for the permanent deposits of wastes.

2.1.16 The Environmental Management and Monitoring Plan (Appendix J) 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.

2.1.17 In accordance with the Environment Agency's 'Adapting to climate change: risk assessment for your environmental permit' a climate change assessment must be completed to support any application for a new bespoke waste activity where the operator expects the activity to takes places for more than five years. As noted in the planning permission, it is envisaged that the proposed works will be undertaken over a period of eleven years. As such, a climate change assessment has been completed to support this application and is provided as Appendix K.

2.1.18 The Financial Provision document (Appendix L) shows all associated costs of environmental monitoring, restoration, monitoring, reports, site reports and security.

2.1.19 The Closure and Aftercare Plan (Appendix M) demonstrates how the landfill will be maintained following cessation of filling activities to the point of surrender of the Environmental Permit, to avoid any risk of pollution.

2.1.20 The Noise Impact Assessment (Appendix N) provides an assessment of noise from the proposed activities. This assessment has been undertaken in accordance with the Horizontal Guidance Note IPPC H3 (Part 2) 'Noise Assessment and Control' and BS 4141:2014 standard.