



ENVIRONMENTAL PERMIT APPLICATION

NON-TECHNICAL SUMMARY

**ASPHALT RECYCLING FACILITY
CAULDON LOW QUARRY
STONE LANE
CAULDON
STOKE-ON-TRENT
ST10 3EW**

Document Reference: AI1007/04.R0
May 2023



**Project Quality Assurance
Information Sheet**

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STOKE-ON-TRENT, ST10 3EW**

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STONEY LANE
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NON-TECHNICAL SUMMARY

Sirius Environmental Limited ('Sirius') have been commissioned by Aggregate Industries UK Limited ('AI') to prepare an application for a site-based Environmental Permit to operate an Asphalt Recycling Facility (ARF) at Cauldon Low Quarry, Stoke-on-Trent.

The ARF will be located within the confines of Cauldon Low Quarry, Stoney Lane, Cauldon, Stoke-on-Trent, Staffordshire, ST10 3EW. The proposed site is situated approximately on National Grid Reference (NGR) SK 07745 48751, as illustrated on Drawing No. AI1007/09/01. The elevation of the application site is ~280mAOD.

Cauldon Low Quarry is located in a rural setting approximately 20km west of Stoke-on-Trent. Cauldon village is located approximately 700m north-northwest of the site and Cauldon Low village lies ~900m southwest of the site.

The ARF will accept, store and treat non-hazardous, bitumen bound, asphalt road planings. Treatment will consist of the crushing and screening/grading of waste asphalt planings into produce a range of Reclaimed/Recycled Asphalt Products (RAP) which meet with WRAP end-of-waste protocols. It is intended to process up to 180,000 tonnes per annum of non-hazardous asphalt planings. The maximum waste storage capacity of the site is 50,000 tonnes.

The operational waste activities undertaken on site can be divided into the following categories:

- Waste Acceptance;
- Waste Storage;
- Waste Processing/treatment; and
- Product Storage (prior to dispatch).

AI have developed Standard Operating Procedures (SOPs) for that accord with their ISO14001 accredited Environmental Management System, which are applied to numerous ARFs operating across the UK. These SOPs detail the procedures to be applied at each ARF, from pre-acceptance check through to the testing and dispatch of reclaimed secondary aggregate products.

Wastes are subjected to full characterisation requirements ahead of delivery to the site, with subsequent verification inspections and PAK testing carried out to ensure that the loads are suitable for storage and processing at the facility. Following acceptance the waste asphalt is stored pending physical treatment through crushing and screening/grading. Treatment operations will be carried out by an approved contractor under the supervision of AI, who will maintain overall control of the permitted activities through contractual obligations that accordance with AI ISO14001 accredited EMS. Processed materials will be subsequently tested to demonstrate accordance with an relevant end-of-waste specifications prior to reuse.

An Environmental and Accidents Risk Assessment has been prepared to assess the potential risk posed by the operation of the ARF to the local environment, including from emission of dusts/particulates, noise, odour, litter, mud and debris, leaks and spillages etc. Due to the nature of the waste handled at the facility and its remote location to residential properties, the potential risk to local amenity is **low-negligible**, with appropriate measures to be implemented to manage potential risks to underlying soils and water resources from leaks and spillages of potential polluting substances (e.g. fuels and oils) associated with plant refuelling/maintenance operations.

A Habitats Risk Assessment has also been prepared to consider the risk posed by the proposed ARF to Rue Hill SSSI. Due to the nature of the waste handled at the facility, the proximity to the facility and its position relative to the prevailing wind, the risks posed to this conservation area are assessed as **low-negligible**.