

APPENDIX A
NON-TECHNICAL SUMMARY

An application for an Environmental Permit to authorise the deposition of inert waste as a disposal operation for the restoration of Earls Barton Spinney Quarry, Grendon Road, Earls Barton, Northampton to agriculture and nature conservation interest

Non-technical Summary

1.1 MJCA is commissioned by Breedon Trading Limited (Breedon) to prepare an application for a bespoke Environmental Permit for the deposition of waste on land as a disposal activity, specifically as an inert waste landfill operation, in Phases 1 and 3 at Earls Barton Spinney Quarry (Earls Barton Quarry), Grendon Road, Earls Barton Northampton. The whole of Phase 1 at Earls Barton Quarry is being worked in 8 sub phases referenced A to G and the Plant Area in a generally clockwise direction. Mineral extraction operations have yet to commence in Phase 3. The whole of Phase 3 at Earls Barton Quarry will to be worked in 2 sub phases referenced A and B. No waste will be deposited in the southern half of Phases 1B and 1F, in Phases 1C to 1E or in the Plant Area or in Phase 2 where the extent of quarrying operations extends beyond the Environmental Permit application boundary. Throughout this non-technical summary the areas in Phases 1 and 3 in which waste will be deposited and which it is anticipated will be the subject of an Environmental Permit are referred to as the site and, unless specified otherwise, references to Phase 1 and Phase 3 are to those areas of Phases 1 and 3 in which waste will be deposited. The layout of all the Phases at Earls Barton Quarry are shown on Figure EB1 which is presented at Appendix C of the Environmental Setting and Site Design (ESSD) report¹ included with the Environmental Permit application.

1.2 With the exception of the A45, Earls Barton Quarry is located in a generally rural setting. The area of Earls Barton Quarry which is the subject of the Environmental Permit application (the site) is located approximately 350m south-south east of Earls Barton, approximately 550m south of Ecton and approximately 1km east of Great Billing which comprises the eastern outskirts of Northampton as shown on Figure ESSD 1 in the ESSD report. The area in which waste will be deposited in Phase 1 is

¹ An application for an Environmental Permit for the permanent deposit of inert waste as a disposal operation for the restoration of Earls Barton Spinney Quarry, Grendon Road, Earls Barton, Northampton to agriculture and nature conservation interest. Environmental Setting and Site Design Report (ESSD). Report reference: BRE/EA/AW/5624/01/ESSD. February 2022.

centred approximately on National Grid Reference (NGR) SP 850 623 (Phases 1A and 1B) and NGR SP 844 623 (Phases 1F and 1G) between the River Nene to the south and the A45 to the north. The areas in which waste will be deposited in Phase 3 is centred approximately on NGR SP 831 624 adjacent to and south of the A45. The River Nene is approximately 250m south of Phase 1 and approximately 0.8km south of Phase 3. The area the subject of the Environmental Permit application is approximately 21 hectares. The site is accessed from Grendon Road through a private access point which connects to the A45 to the north of Phase 1 (Figure ESSD 2 in the ESSD report).

- 1.3** The closest residential receptors to Phase 1 comprises a caravan park approximately 180m to the east. The caravan park is set amongst and generally to the north of a transport services depot. White Mills Marina is located approximately 400m east-south east of Phase 1. There is a residential property approximately 390m north of Phase 1 beyond the A45. The residential property is located adjacent to and north of Whites Nursery which is located approximately 240m north of Phase 1. There are no residential receptors within 500m of Phase 3. The closest properties to Phase 3 comprise the service stations on the A45 with the northern service station location approximately 350m to the west – north west.
- 1.4** There are several public rights of way in the vicinity of the site as shown on Figure ESSD 2. Footpath TC17 runs in a generally south westerly direction along the River Nene approximately 250m south of Phase 1 to a location approximately 390m south of Phase 1 where it joins Bridleway KF19 from the north, Bridleway KF20 from the south and Footpath KF4 from the south west. Bridleway KF19 joins Bridleway TC13 approximately 170m to the north. Prior to mineral extraction Bridleway TC13 ran in a generally north east direction through the southern part of Phase 1 of Earls Barton Quarry to the south of the site. It is understood that Bridleway TC13 has been diverted round the southern boundary of Phase 1D before running northerly between Phase 1C and Phases 1D and 1E. There is a byway which runs in a generally westerly direction from the north western corner of Phase 1 to the south western corner of Phase 3. The eastern end of the byway is number TC12 and the mid and western sections of the byway is number TE11. It is understood that the eastern end of Byway TC12 and the northern end of the diverted route of Bridleway TC13 are

joined by a generally north south running track adjacent to and to the east of Phase 1A and between Phase 1A and the Plant Area. Adjacent to the south western corner of Phase 3 Byway TE11 joins Byway TE10 which runs in a generally north south direction to the east of Phase 3 and south of Phase 3.

- 1.5** Based on information provided by Breedon it is understood that there is a gas pipeline which runs in a generally north south direction adjacent to and to the east of Phase 1A and between Phase 1A and the Plant Area.
- 1.6** Based on information reviewed on the Defra MAGIC website the Upper Nene Valley Gravel Pits SSSI is located approximately 600m to the east – south east of the site and the Upper Nene Valley Gravel Pits Ramsar Site is located approximately 1.0km to the east – south east of the site. The Upper Nene Valley Gravel Pits Ramsar Site has additionally been scheduled as a Special Protection Area (SPA). There are no Special Areas of Conservation (SACs), Local Nature Reserves (LNRs) or National Nature Reserves (NNRs) located within 2km of the site.
- 1.7** It is understood that planning permission was first granted for mineral extraction and restoration operations at the site in September 2007 (planning permission reference 07/00050/MIN). The original planning permission for the site has been varied on several occasions since it was first issued including in October 2010 when planning permission reference 10/00066/EXT was granted for the *'...replacement of extant planning permission 07/00050/MIN to extend the time limit...'* The extant planning permission for the site reference 15/00091/MINVOC & WP/15/00791/CRA was granted on 24 February 2016 (the 2016 planning permission) for the *'Variation of conditions 2 (Approved Documents), 16 (Waste Deposition Phases), 17 (Working Scheme) and 43 (Floodplain Compensatory Storage) of permission ref. no. 10/00066/MINEXT – Earls Barton Spinney Quarry, Off Grendon Road, Earls Barton'*. Condition 2 of the 2016 planning permission states that *'Upon commencement the development hereby permitted shall supersede, consolidate and replace planning permission ref. nos. 10/00066/MINEXT...'*

- 1.8** The 2016 planning permission has been the subject of several Non-Material Amendments (NMAs) in 2017, 2018 and 2019 the most relevant of which is NMA reference 19/00022/MINNMA & WP/19/00220/CRA dated 14 June 2019 ‘...to work the remaining permitted mineral in the following sequence – 1G then 1F with 1D being extracted contemporaneously during the summer months when weather conditions allow of planning consent: 15/00091/MINVOC at Earls Barton Spinney Quarry, Off Grendon Road, Earls Barton’ (the 2019 NMA). The 2019 NMA amended Condition 3 of the 2016 planning permission which relates to the approved documents and plans. There were no other changes to the 2016 planning permission. Copies of the planning permissions together with plans showing the boundary of the planning permissions are presented in the ESSD report.
- 1.9** It is anticipated that approximately 250,000m³ of inert waste materials will be needed to complete the restoration of Phase 1 and Phase 3. On site overburden and quarry waste materials are being used to restore the remainder of Phases 1 and 3 together with Phase 2. The consented restoration scheme is to agriculture and nature conservation interest which is shown on drawings presented in the ESSD report.
- 1.10** Based on the geological information presented on the British Geological Survey map of Wellingborough (sheet 186), the logs of mineral exploration boreholes and groundwater monitoring boreholes drilled at and in the vicinity of the site and information made available online by the BGS including geological mapping Phase 3 and the majority of Phase 1 are underlain by Quaternary River Terrace Deposits. In the vicinity of Phase 3 the River Terrace Deposits are designated the Ecton Member which is part of the Quaternary Nene Valley Formation. The River Terrace Deposits comprise sands and gravels. Based on the BGS geological mapping Alluvium comprising silt and clay with peat lenses is recorded overlying the River Terrace Deposits in the west of Phase 1. The Alluvium is associated with the Earls Barton Brook which is also referred to as Sywell Brook in some sources including the EA Catchment Data Explorer website. Earls Barton Brook flows from north to south in proximity to the western boundary of Phase 1.

- 1.11** The sands and gravels at the site are underlain by the Whitby Mudstone Formation of the Lias Group. The Whitby Mudstone Formation comprises predominantly mudstone and siltstone.
- 1.12** The sand and gravel river terrace deposits are water bearing and have a moderate to high hydraulic conductivity. The underlying Whitby Mudstone Formation has a low hydraulic conductivity supporting the groundwater in the overlying sand and gravel deposits. The general direction of groundwater flow at and in the vicinity of the site is to the south or south east towards and in the direction of flow of the River Nene. The river terrace deposits are designated as a Secondary A Aquifer by the Environment Agency (EA). A secondary A aquifer is defined by the EA as “permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.” The Whitby Mudstone Formation is designated as unproductive strata by the EA. Unproductive strata are defined by the EA as “rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow”.
- 1.13** Based on information provided by the EA the site is not located within 5km of a groundwater Source Protection Zone (SPZ) for a public drinking water supply. A private groundwater abstraction is located approximately 4.40km south of the site at Denton Nurseries with an annual abstraction rate of 73m³.
- 1.14** As explained above the River Nene is located at its closest approximately 250m to the south of Phase 1. The River Nene is located at its closest approximately 0.8km south of Phase 3. The Earls Barton Brook is located adjacent to and west of the western boundary of Phase 1 and flows to the south to a confluence with a channel linking a lake located approximately 150m south west of Phase 1 with the River Nene. Ecton Brook flows in a southerly direction approximately 80m west of Phase 3. The watercourses and waterbodies in the vicinity of the site are shown on Figures ESSD 1 and ESSD 10 presented in the ESSD report.
- 1.15** Based on information provided by the EA there are no licensed surface water abstractions located within the site boundary. There is one licensed surface water

abstraction located approximately 260m south of Phase 1. The purpose of the abstraction is mineral washing and the water is abstracted from the River Nene. There are no other licensed surface water abstractions within 2km of the site.

- 1.16** In the Environmental Risk Assessment (ERA) included with this application consideration is given to the potential for accidents, odour, noise and fugitive emissions having regard to the proposed site operations and the presence and location of sensitive receptors in the vicinity of the site. Operations at the site will be undertaken in accordance with the control measures described in the ERA. Company operational, maintenance, inspection and accident management procedures will be put in place to minimise the risk of nuisance or accidents at the site. It is concluded in the ERA that the operation of the facility has a low or very low risk of adverse impact on the surrounding environment. A programme of environmental monitoring will be carried out to confirm the results of the ERA. The results of the monitoring will be reported to the EA on a regular basis.
- 1.17** Based on the results of the Hydrogeological Risk Assessment (HRA) included with the application it is considered that there is no significant risk from the proposed deposition of inert waste to groundwater quality in the vicinity of the site. Based on the environmental setting and the inert nature of the materials that will be deposited at the site active long-term site management will not be necessary in order to prevent long term groundwater pollution. A programme of environmental monitoring will be carried out to confirm the results of the HRA. The results of the monitoring will be reported to the EA on a regular basis.
- 1.18** Based on the results of a Landfill Gas Risk Assessment (LFGRA) included with the application it is concluded that there is no significant risk to human health or to the environment from exposure to landfill gas generated in the site. A programme of environmental monitoring will be carried out to confirm the results of the LFGRA. The results of the monitoring will be reported to the EA on a regular basis.
- 1.19** The inert waste types that will be accepted at the site the subject of the Environmental Permit are presented in the Environmental Permit application. Waste acceptance

procedures will be in place to minimise the risk that unacceptable waste materials will be accepted at the site including procedures for the rejection of non-conforming loads. The receipt, handling and storage of waste materials will be the subject of procedures in the Company management system which is the subject of Breedon's ISO 14001:2015 Environmental Management System (EMS). A summary of the EMS is included with the Environmental Permit application.

- 1.20** Breedon is committed to ensuring that members of its staff are technically competent to undertake waste operations and uses the Chartered Institution of Wastes Management/Waste Management Industry Training and Advisory Board (CIWM/WAMITAB) scheme for these purposes. The training standards set out in the CIWM/WAMITAB scheme, as relevant to the operation of a facility for the deposit of waste on land and waste operations in general, are adopted for training purposes.