# MANTON QUARRY RESTORATION

**Environmental Permit Variation Application** 

**Non-Technical Summary** 

Prepared for: Brianplant (Humberside) Limited

EA Reference: EPR/GB3535RQ/V002



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SLR Ref No: 416.01994.00002

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#### 1.0 Introduction

SLR Consulting Limited (SLR) has been retained by Brianplant (Humberside) Limited (Brianplant) to prepare an Environmental Permit (EP) variation application. The variation application seeks to add a bespoke deposit for recovery activity to the existing EP to facilitate the use of suitable waste in the restoration of Manton Quarry (the Site), located near Manton, North Lincolnshire DN21 4JT under the Environmental Permitting (EP) (England and Wales) Regulations 2016.

For the purposes of accuracy, this NTS and core documents that make up this submission are considered second versions and have been amended to represent a change in approach<sup>1</sup> from a new permit application to a permit variation application. Therefore the proposed new waste recovery activity will be consolidated with the existing waste activities permit on site.

This non-technical summary (NTS) provides a summary of the regulated facilities, an explanation of exactly what is being applied for, and a summary of the key technical standards and control measures that will be implemented at the site.

To support this variation application, the following documentation is submitted in addition to this NTS:

- Application Forms (Parts A, C2, C4 and F1) and supporting documentation including WAMITAB
   Certificates and Certificates of Continuing Competence and a summary of the site's Operating
   Techniques (OT) and Environmental Management System (EMS);
- Drawings;
- Approved Waste Recovery Plan;
- Environmental Setting and Site Design Report;
- Environmental Risk Assessment V2;
- Emissions (Dust) Management Plan V2; and
- Operating Techniques and Environmental Management System.

#### 1.1 The Site

Manton Quarry is situated approximately 450m southeast of the village of Manton within a predominantly agricultural area. Kirton in Lindsey is located approximately 3.5km south of the site and Scunthorpe is approximately 9km to the northwest. The site is centred on National Grid Reference SE 93976 02420, with the postcode DN21 4JT. The site location and site boundary are shown on Drawings 0726-1-8 and 001 respectively.

The site forms part of the wider Manton Quarry which covers an area of approximately 51 hectares. Quarrying operations have taken place throughout the wider site with the only remaining area to be quarried situated in the north eastern section. Only the central, eastern, and southern areas of Manton Quarry are to be restored through waste recovery. The proposed area to be restored through waste recovery sits within the wider existing recycling EP boundary as shown on Drawing 001.

The entire site is designated as a geological SSSI called Manton Stone Quarry SSSI. It is considered to be a key exposure of the more northerly development of the Lincolnshire Limestone. Four other SSSIs are located within close proximity. These include Cleatham Quarry which lies approximately 640m south, Cliff Farm Pit which is

<sup>&</sup>lt;sup>1</sup> Email dated 7th July 2023 from EA determining officer Chris Cummings to change the approach following misinformation provided by the EA at pre-application service.



situated approximately 1170m south, Manton & Twigmoor which is located approximately 1170m north, and Messingham Sand Quarry which lies approximately 2340m northwest.

The majority of the land surrounding the site is occupied by open/agricultural ground with a few quarries located within the surrounding area including Kirton Quarry and Landfill to the southeast, approximately 50m from the eastern EP boundary.

The closest residential properties to the EP boundary are Manton Place and Newlands Farm which lie approximately 350m west and 380m east respectively. Cleatham Hall is situated approximately 680m southwest of the site. Further residential properties are located in Manton Village, approximately 450m to the northwest.

Access to the site is provided by Manton Lane which runs adjacent to the site's northern EP boundary. This in turn provides access to the B1398 which lies approximately 30m from the site's eastern boundary.

The site's location is illustrated on Drawing 0726-1-8, and the EP Boundary, and proposed area to be restored through waste recovery is illustrated on Drawing 001.

The surrounding land uses and local receptors within 500m and the ecological, cultural and natural heritage receptors within 1km are identified on Drawing 003.

BoundaryDescriptionNorthManton Stone Quarry SSSI is located immediately to the north, followed by Manton Lane. Beyond this lies open/agricultural land.EastImmediately to the east lies the B1398, and Kirton Quarry and Landfill. Newlands Farm and open/agricultural land are also located in this direction.SouthOpen/agricultural land and Cleatham Quarry SSSI are located to the south of the site.WestManton Stone Quarry SSSI lies immediately to the west, followed by open/agricultural land. Beyond this lies Manton Village which is home to a number of residential properties.

**Table 1-1: Surrounding Land Uses** 

#### 1.2 Current Environmental Permit

Brianplant hold a Tier 2 EP for the 'treatment of waste to produce soil, soil substitutes and aggregate' (based on SR2010 No 12) at Manton Quarry (Ref: EPR/GB3535RQ). The EP boundary covers the entire quarry to ensure ongoing operational flexibility as the quarry is restored. The proposed area to be restored through waste recovery sits within the wider existing recycling EP boundary as illustrated on Drawing 001. Treatment and storage of waste destined for restoration will be processed within the recycling area of the site.

The EP authorises the following activities as described in Annex I and Annex II of the Waste Framework Directive:

- R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced);
- R3: Recycling/reclamation of organic substances which are not used as solvents;
- R5: Recycling/reclamation of other inorganic compounds.

There is no change to the existing recycling activities in any way as a result of the proposed EP variation application. Brianplant will continue to accept up to 75,000 tonnes per annum of waste as listed in Table S2.1 of the existing EP for the purpose of physical treatment to produce topsoil and a range of recycled hardcore. The



permitted tonnage for the recycling activity is separate, and in addition to the proposed permitted tonnage for the waste recovery activity.

# 1.3 Approved Waste Recovery Plan

A Waste Recovery Plan (WRP) was submitted to the Environment Agency (EA) and approved on 8<sup>th</sup> December 2021. The approved WRP and the RVD Pre-Application Advice Letter is included in Section 4 of this EP variation application.



# 2.0 Waste Recovery – Environmental Permit Variation Application

This EP variation application seeks to add a bespoke deposit for recovery activity to the existing EP to facilitate the use of suitable imported waste materials in the restoration of the site. The central, eastern, and southern areas of Manton Quarry will be restored to create 7 hectares of agricultural land. This will re-integrate the site into the surrounding landscape which consists of mostly agricultural land. The south eastern section of the quarry has already been returned to close to original levels and this area only requires final profiling and re-soiling to complete restoration.

It is a requirement of the Planning Permission (Ref: MIN/2016/556) that the quarry is restored in line with the approved restoration concept and the Environmental Statement therefore re-soiling the area using 2m of soil products and returning the land to a condition suitable for agricultural use which will integrate into the surrounding landscape. Approximately 146,000m<sup>3</sup> of material will be required, which will be sub-divided into:

- 1.7m of suitable waste; and
- 0.3m of waste topsoil created from recycled soils and stones.

This equates to approximately 321,200 tonnes at an assumed density of 2.2t/m<sup>3</sup>.

The site will be infilled to between 66m and 68m AOD and profiled to drain to the east with a slope of less than 1 in 50. This will achieve the planning requirement to restore the site in line with the approved restoration concept and in accordance with details in the Environmental Statement.

The restoration will be undertaken over five phases. The first phase shall commence at the southern corner of the site, with infilling in the southern and central areas. Subsequent phases will follow as the first phase is completed with phases 4 and 5 infilling the area where the weighbridge currently sits. Infilling will be carried out progressively, based upon the availability of suitable waste materials.

Condition 1 of the first periodic review of the planning permission (Ref: MIN/2016/556) states that all site works must be completed, and the site must be restored in accordance with the approved restoration concept by 24 February 2042.

The approved restoration concept is illustrated on Drawing 0726-1-13.

# 2.1 Waste Types and Quantities

The waste types which will be used for the waste recovery activity are detailed in Tables 2 and 3 below with their associated European Waste Catalogue (EWC) code. These waste types have historically been accepted by the EA as being potentially suitable for recovery (and are listed as acceptable in the Standard Rules SR2015 No39 Use of Waste in a Deposit for Recovery Operation and the Check if Your Waste is Suitable for Deposit for Recovery Guidance).

The waste categories which will be accepted on site as general fill are detailed in Table 2 below.

Table 2 List of Waste Types to be Accepted for General Fill

EWC Code	Description
17	CONSTRUCTION AND DEMOLITION WASTE
17 05	Soil Stones and Dredging Soil
17 05 04	Soil and Stones

19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 12	Waste from the mechanical treatment of waste
19 12 12 <sup>2</sup>	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
20	MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS.
20 02	Garden and Park Wastes
20 02 02	Soil and stones

The waste categories which will be accepted on site as topsoil are detailed in Table 3 below.

Table 3 List of Waste Types to be Accepted for Topsoil

EWC Code	Description
17	CONSTRUCTION AND DEMOLITION WASTE
17 05	Soil Stones and Dredging Soil
17 05 04	Soil and Stones
20	MUNICIPAL WASTE (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS.
20 02	Garden and Park Wastes
20 02 02	Soil and stones

Strict Waste Acceptance Procedures (WAP) will be implemented at the site to ensure only uncontaminated materials that are suitable for infill are used in the recovery operation. Procedures will be in place to inspect imported materials at the weighbridge as they enter the site, and again when the materials are tipped in the landfill site.

All waste accepted at the site will be suitable for deposit, and no contaminated materials will be accepted. Documentation will accompany all waste material accepted, which will be reviewed in accordance with the site's waste pre-acceptance and acceptance procedures, included within the OT and EMS, to ensure any materials used are suitable for use in the restoration operations.

The restoration of the site will require approximately 146,000m<sup>3</sup> which equates to approximately 321,200 tonnes at an assumed density of 2.2t/m<sup>3</sup>.

The site will accept up to 60,000 tpa (approximately 30,000m<sup>3</sup>) for the purposes of waste recovery.

<sup>&</sup>lt;sup>2</sup> This will exclude metal from reinforced concrete and fines from treating any non-hazardous waste or gypsum from recovered plasterboard and no hazardous waste or dangerous substances will be included in accordance with EA Guidance *Check if your waste is suitable for deposit for recovery, 21 April 2021*.



## 2.2 Site Engineering

The site will be developed as detailed within the approved WRP and in accordance with the associated planning consent.

Waste recovery operations at the site will be undertaken in accordance with Brianplant's OT and EMS. The OT and EMS will ensure procedures are implemented to achieve appropriate standards for managing environmental impacts.

The recovery activities will be supervised by technically competent persons who hold the necessary Certificate of Technical Competence (CoTC) under the Waste Management Industry Training and Advisory Board (WAMITAB).

The waste recovery activities to be carried out will be managed and operated in accordance with the OT and EMS document included in Section 7 of this EP variation application.

Consequently, operational procedures for the management of the site will ensure that all appropriate pollution prevention and control techniques are delivered reliably and on an integrated basis. The OT and EMS assists in maintaining compliance with regulatory requirements and managing environmental impacts.

Restoration operations will be conducted in accordance with an approved method statement and risk assessment, to ensure that the work is carried out to an appropriate standard and in accordance with the requirements set out in part VI of the 1999 Quarry Regulations for formation and compaction. An earthworks methodology will be set out in detail in an engineering specification that will be completed prior to undertaking any works. This will set out requirements for:

- Material acceptance testing and classification;
- Requirements for placement trials;
- Material placement and compaction requirements (method or end product placement);
- Requirements for in-situ testing during and following placement of materials;
- Procedures to be followed where materials or compaction are deemed not to have met the specification;
- Requirements for any monitoring of the compaction / engineering works.

# 2.3 Specified Waste Management Activities

The specified waste management activities that will be carried out at the site as part of the waste recovery operations, as specified in Annex I of the Waste Framework Directive are as follows:

• R5: Recycling / reclamation of inorganic compounds – for the use of waste for the purpose of restoration of land.



# 3.0 Variation Application Contents

#### 3.1 Application Forms

Parts A, C2, C4 and F1 of the EA's application forms have been completed. The forms are accompanied by the following additional information:

- Appendix A-1 List of Directors;
- Appendix B WAMITAB Certificates and Certificates of Continuing Competence; and
- Appendix C Technically Competent Managers Information.

The application forms are included in Section 2 of this EP variation application.

#### 3.2 Application Fee

This EP variation application seeks to add a new bespoke deposit for recovery activity to the existing EP. In accordance with the EA's Environmental Permitting and Abstraction Licensing (England) Charging Scheme 2022<sup>3</sup> "In the case of an application to vary a permit, where the application is – to authorise the operation of an activity which is not already authorised by that permit, the charge is the permit application charge applicable to that activity".

Therefore, the fee for this EP variation application is as follows:

- Application fee to add the new bespoke deposit for recovery activity, Table 1.17.9 of the charging scheme: £9,207;
- Emissions (Dust) Management Plan: £1,241; and
- Habitats Assessment: £779.

Therefore, the total fee will be: £11,227.

#### 3.3 Drawings

The following drawings are included in this EP variation application.

Drawing 0726-1-8
 Site Location Plan

Drawing 001 Environmental Permit Boundary V2

Drawing 002 Cross Sections

Drawing 003 Environmental Site Setting

Drawing 0726-1-13 Restoration Concept

The drawings are included in Section 3 of this EP variation application.

<sup>&</sup>lt;sup>3</sup> The Environment Agency (Environmental Permitting and Abstraction Licensing) (England) Charging Scheme 2022 (publishing.service.gov.uk)



## 3.4 Approved Waste Recovery Plan

A WRP has been prepared in accordance with the specific requirements laid down in the EA guidance on Waste Recovery Plans and Permits (EA Waste Recovery Guidance)<sup>4</sup>. The WRP seeks agreement from the EA that the proposed activity satisfies all principles of recovery.

The WRP was approved on the 8<sup>th</sup> December 2021.

The WRP (ref: 416.01994.00002/WRP) and the RVD Pre-Application Advice Letter is included in Section 4 of this EP variation application.

#### 3.5 Environmental Risk Assessment

An Environmental Risk Assessment (ERA) has been carried out to assess the environmental risk posed by the new bespoke waste recovery operations on site only. Risks associated with the existing recycling permit on site have been fully assessed during previous submissions, and are considered to be sufficient, as there is no change proposed to the existing recycling activities, tonnages or waste types.

The assessment has been completed in accordance with the EA's ERA technical guidance published February 2016<sup>5</sup>.

The aim of the assessment is to identify any significant risks and demonstrate that the risk of pollution or harm will be acceptable by taking the appropriate measures to manage these risks.

Operational procedures at the site have been developed to monitor and manage amenity risks from the proposed activities and include provision for the monitoring of scavenging birds, vermin, insects, litter, mud on roads, dust, odour and noise. The potential impact of the proposed development on surrounding human and environmental receptors is assessed in the risk assessment and the receptors illustrated on Drawing 003.

Subject to the implementation of management measures, the conclusion of the assessment is that the proposed waste recovery activities are unlikely to result in a significant risk to the amenities of the local environment.

The ERA (ref: 416.01994.00002/ERA) is included in Section 5 of this EP variation application.

# 3.6 Environmental Site Setting and Site Design Report

An Environmental Site Setting and Site Design Report (ESSD) report has been prepared in support of this EP variation application to add the bespoke deposit for recovery activity. The ESSD defines the site's conceptual model including the potential source, pathway and receptor linkages. It provides details on the site's environmental setting, and the proposed design of the site.

The ESSD report has been written in reference to EA guidance<sup>6</sup> relating to the deposit of waste on land as recovery.

The ESSD (ref: 416.01994.00002/ESSD) is included in Section 6 of this EP variation application.

# 3.7 Operating Techniques and Environmental Management System

The site will be operated in accordance with the OT and EMS document. This document sets out best practice for operating the site, based on legislation and best available techniques in the industry. Brianplant will also operate their own management system.

<sup>&</sup>lt;sup>6</sup> Landfill operators: environmental permits - What to include in your environmental setting and site design report - Landfill operators: environmental permits - Guidance - GOV.UK (www.gov.uk)



<sup>&</sup>lt;sup>4</sup> Guidance: Waste recovery plans and permits; gov.uk; published 18<sup>th</sup> October 2016.

 $<sup>^{5}\,</sup> EA\,\, Website-Environmental\,\, Risk\,\, Assessments, \, https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit$ 

The management system and OT and EMS will ensure that:

- The risks that the activities pose to the environment are identified;
- The measures that are required to minimise the risks are identified;
- The activities are managed in accordance with the management system and the OT and EMS;
- Performance against the management system is audited at regular intervals; and
- The EP is complied with.

The OT and EMS (ref: 416.01994.00002/OT) is included in Section 7 of this EP variation application.

#### 3.7.1 Waste Acceptance Procedure

The purpose of the WAP is to ensure that the waste recovery activity only accepts waste that is:

- Suitable for the activity;
- Allowed by the EP; and
- Appropriately considered by the ERA.

The WAP will also assist with:

- Ensuring the activities do not cause pollution;
- The waste sourcing decision making process; and
- Preventing the receipt of non-permitted wastes.

The WAP (ref: 416.01994.00002/WAP) is included as Appendix 03 to the OT and EMS.

# 3.8 Emissions (Dust) Management Plan

The EA's guidance<sup>7</sup> requires that all facilities for the 'recovery of household, commercial or industrial waste by deposit for recovery' and are located 'within 500m of a sensitive receptor such as a home', need an Emissions (Dust) Management Plan (DMP) to be prepared.

Therefore, a DMP (ref: 416.01994.00002/DMP) has been prepared in support of this EP variation application to account for the proposed bespoke waste recovery activity and is included in Section 8 of this EP variation application.

The DMP will be incorporated into the site procedures and will be revised as necessary to ensure that it remains appropriate to the activities occurring on site and that any changes in conditions relating to dust management are dealt with as part of those revisions. In particular, the monitoring procedures and compliance actions will be updated as required by the procedures within the DMP.

# 3.9 Noise Impact Assessment/Management Plan

Potential noise emissions have been assessed in the ERA prepared in support of this EP variation application, following the EA's guidance<sup>8</sup>. It was determined that due to the bespoke waste recovery activities proposed at Manton Quarry (only the acceptance and deposit of suitable waste material) for restoration a noise impact assessment would not be required. In turn, as noise was assessed not to have a severe impact on the wider



<sup>&</sup>lt;sup>7</sup> Control and monitor emissions for your environmental permit - GOV.UK (www.gov.uk)

<sup>&</sup>lt;sup>8</sup> Risk assessments for your environmental permit - GOV.UK (www.gov.uk)

environmental setting, a management plan was not required either, for the reasons detailed in the following bullet points;

- There will be no treatment of waste as part of the waste recovery activity;
- There will be no storage of waste material as part of the waste recovery activity;
- Only intermittently used mobile plant will be operational during daylight hours;
- The closest residential receptor is located 350m to the west of the wider EP boundary (with prevailing winds from the opposite direction, the south west). One further residential property lies 380m to the east. No further sensitive receptors are located within 500m of the site;
- The site lies to the west (across the B1398) of Kirton Quarry and Landfill site;
- Although the site lies within the Manton Stone Quarry SSSI, this has been designated due to its key
  exposure of Lincolnshire Limestone. This formation has been incorporated into the final approved
  Restoration Plan for the wider quarry; and
- No operations will be undertaken at night.

However, to ensure that noise does not become an issue in the future, mitigation and management measures proposed to be implemented on site, have been included in the ERA, and OT and EMS submitted with this variation application.



# 4.0 Management System and Operating Techniques

The key technical standards laid out in the following documents govern the design and operation of the site:

- Environmental Permitting Regulations: Inert Waste Guidance. Standards and Measures for the Deposit
  of Inert Waste on Land;
- The Environmental Permitting (England and Wales) Regulations 2016 (as amended);
- Risk assessments for your environmental permit, EA website, dated 1<sup>st</sup> February 2016;
- Risk Assessments for specific activities, EA website, dated 2<sup>nd</sup> February 2016; and
- Developing a management system: environmental permits.

The site will be managed and operated in accordance with Brianplant's OT and EMS.

The management system will ensure that:

- The risks that the activities pose to the environment are identified;
- The measures that are required to minimise the risks are identified;
- The activities are managed in accordance with the management system;
- Performance against the management system is audited at regular intervals; and
- The EP is complied with.

The control measures relevant to the proposed activities are described in the OT and EMS document submitted with this variation application.

The proposals have been assessed against these standards and are all considered to meet the relevant technical standards.

The overall conclusion is that there is unlikely to be a significant environmental impact as a result of the proposed waste recovery activities on site. There are no changes to the existing operations on site.

Brianplant is fully committed to ensuring the highest standards are met and will undertake its activities in a manner consistent with best industrial practices and in accordance with the Company's OT and EMS and associated procedures.



Brianplant (Humberside) Limited Manton Quarry Restoration Environmental Permit Variation Application: Non-Technical Summary



SLR Ref No: 416.01994.00002

July 2023

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