AN APPLICATION FOR A BESPOKE ENVIRONMENTAL PERMIT FOR AN INERT AND EXCAVATION WASTE TREATMENT FACILITY TO BE OPERATED BY TARMAC AT BAYSTON HILL QUARRY, SHARPSTONE LANE, SHREWSBURY, SY3 0AW

Report reference: TAR/BSN/LJB/5759/01/AR
July 2024

Baddesley Colliery Offices, Main Road, Baxterley, Atherstone, Warwickshire, CV9 2LE
Tel. (01827) 717891

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1. Introduction

1.1 MJCA is commissioned by Tarmac Trading Limited (Tarmac) to prepare an application for a bespoke Environmental Permit for an inert and excavation waste treatment facility to be operated by Tarmac at Bayston Hill Quarry, Sharpstone Lane, Shrewsbury, SY3 0AW (the site). The site is centred approximately at National Grid Reference (NGR) SJ 50136 09540 and covers an area measuring approximately 1.8 hectares. The location of the site is shown on Figure 1 and the site boundary the subject of the proposed permit is shown outlined in green on Figure 2. As shown on Figure 3, the waste treatment facility will be located in the north west corner of the wider Baston Hill Quarry which covers an area of approximately 65 hectares.

1.2 The proposed activities will be consistent with the activities that are authorised under Environment Agency Standard Rules SR2009No6 - inert and excavation waste transfer station with treatment, with the total quantity of waste accepted at the site less than 250,000 tonnes per annum (tpa) Initially, Tarmac proposed to apply for Standard Rules SR2009 No6, however, a pre-application Nature and Heritage Conservation Screening Report received from the Environment Agency for the proposed site location, indicated that the site does not meet the Standard Rules due to the potential for the presence of Great Crested Newts within 250m of the site. On this basis, the site requires a bespoke permit. A copy of the pre-application Nature and Heritage Conservation Screening Report is presented at Appendix A.

1.3 The waste types that are proposed to be accepted at the site are limited to a single waste type, 17 03 02 bituminous mixtures other than those mentioned in 17 03 01. For clarity, the waste type is listed in Table 1. The site will comprise a site for the receipt, storage and processing by crushing and screening of road planings and returned asphalt. Road planings and returned asphalt will be transported to the site by road and following processing will be removed from the permitted site for recovery at a suitably authorised facility (for example a roadstone coating plant).

1.4 The application has been prepared with reference to relevant guidance provided by the Environment Agency on the gov.uk website. Parts A, B2, B4 and F1 of the Environment Agency Environmental Permit Application Forms are presented at Appendix B. A non-technical summary of the application is presented at Appendix C.

1.5 A Site Condition Report (SCR) is presented at Appendix D. The SCR is based on information presented in an Envirocheck Report obtained from Landmark Information Group on 27 March 2024. The SCR describes the condition of the site prior to operations commencing.

1.6 The application is supported by a qualitative Environmental Risk Assessment (ERA) for accidents, odour, noise and fugitive emissions presented at Appendix E. The ERA assesses the potential impacts to the surrounding environment from the proposed activities at the site. In the ERA it is concluded that the operation of the facility has a low or very low risk of adverse impact on the surrounding environment including sites of heritage or nature conservation interest. Based on the assessment presented in the ERA it is unnecessary to provide an odour management plan with this application.

1.7 A dust and emissions management plan (DEMP) is presented at Appendix F. The DEMP identifies the operations at the site which may have the potential to have an impact on air quality as a result of emissions of particulate matter, presents the details of the operational controls which are implemented to minimise emissions and describes the monitoring which will be carried out to confirm the effectiveness of the management controls.

1.8 Environment Agency guidance *Risk assessments for your environmental permit*[1] states that:

> *"The Environment Agency may ask you to submit a noise and vibration impact assessment and a noise management plan if:*
>
> - *your activity uses noisy plant or machinery, for example cooling equipment or fans*
> - *you will be doing any noisy operations, such as loading or unloading, shredding, shearing, crushing, grinding, combustion, using trommels and conveyors or moving bulk materials*
> - *your activities are not contained within buildings*

[1] https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit Environment Agency and Defra. Published 1 February 2016. Last updated 21 November 2023.

- *some of your activities take place at night*
- *the area where you are planning to carry out your activity is sensitive to noise, for example rural areas may have quieter background noise levels than urban areas*
- *there are sensitive receptors close to the site, for example houses or habitats"*

1.9 Although it is considered unlikely that the limited activities will have a significant environmental impact in respect of noise, a noise impact assessment (NIA) will be undertaken, and a noise management plan (NMP) will be prepared based on the findings of the NIA. Based on operational changes currently ongoing in the wider Bayston Hill Quarry, at the time of preparation of this application in June 2024 it was not considered to be the most suitable time to record baseline noise conditions at the site. A baseline noise survey has been programmed by Vibrock for autumn 2024 and a copy of the NIA and NMP to be prepared by Vibrock will be provided to the Environment Agency following submission of this application prior to the commencement by the Environment Agency of the determination of the application.

2. Application form continuation

Application form Part A – Question 5c – Details of the directors

2.1 There are nine Officers recorded on the Companies House website for Tarmac Trading Limited. There is only space in Form Part A to enter the details of two Officers. The details of the nine Officers are listed below:

Officer	Position	Date of Birth
Bevan John Browne	Director	[redacted]
Peter Buckley	Director	
Shaun Davidson	Director	
John Michael Delaney	Director	
Robin John Doody	Director	
Simon James Grey	Director	
Mark Thomas Wood	Director	
Katie Elizabeth Smart	Secretary	
Tarmac Secretaries (UK) Limited	Secretary	

Application form Part C2 – Section 3

2.2 The site will be managed in accordance with an environmental management system (EMS). A summary of the Tarmac EMS is presented at Appendix G and the certification documentation for the technically competent site manager is presented at Appendix H.

Application form Part C4 – Table 3a – Technical standards

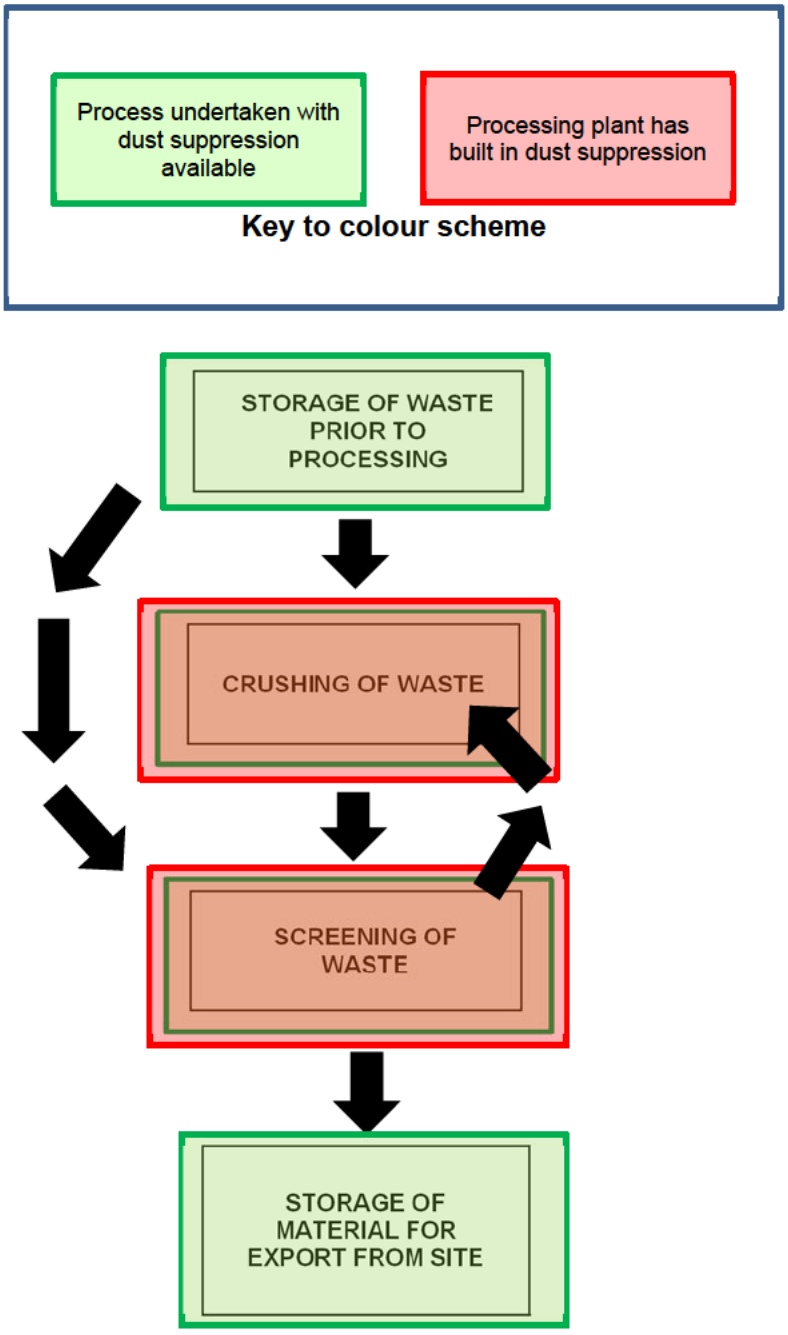
2.3 As the site will comprise an inert and excavation waste transfer station with treatment, the appropriate measures which are most relevant are "*Non-hazardous and inert waste: appropriate measures for permitted facilities*[2]" (the appropriate measures). Section 1 of the appropriate measures (*when appropriate measures apply*) states in paragraph 1.2 (*assessing appropriate measures for your site*)

> *"Some measures in this guidance may not be suitable or relevant for your operation. Appropriate measures will depend on the:*
> - *activities being carried out*
> - *size and nature of the activities*

[2] https://www.gov.uk/guidance/non-hazardous-and-inert-waste-appropriate-measures-for-permitted-facilities

- *location of the facility"*

2.4 The schematic diagram below illustrates the limited and low risk nature of the activities undertaken at the site which comprise the crushing and screening of 17 03 02 (bituminous mixtures other than those mentioned in 17 03 01 - road planings and asphalt) on a campaign basis which will generally occur every three months.



2.5 As shown on Figure 3, the site is located within Bayston Hill Quarry, an operational quarry that produces aggregates. The quarry is operated by Tarmac. Access to the site from road is off Sharpstone Lane which connects to the A49 located to the west of the site. The A49 connects to the A5 dual carriageway which is located to the north of the site. As shown on Figure 3 there are no residential properties within 250m of the proposed waste site.

2.6 The appropriate measures are subdivided into the following categories:

1. When appropriate measures apply
2. General management appropriate measures
3. Waste pre-acceptance, acceptance and tracking
4. Waste storage
5. Waste treatment
6. Emissions control
7. Emissions monitoring and limits
8. Process efficiency appropriate measures
9. Waste minimisation, recovery and disposal

2.7 Further details relevant to Section 6 - emissions control are presented in the ERA at Appendix E and in the DEMP at Appendix F of this application and will be included in the NMP sent separately to this application. Section 6.1 of the appropriate measures refers to enclosure within buildings and states the following:

1. *Enclosing activities within buildings can be an appropriate measure for preventing and minimising emissions of pollution*
2. *If your waste treatment activities are likely to cause (or are causing) significant pollution at sensitive receptors which cannot be addressed by alternative measures, then you must*

carry out that waste treatment activity within an enclosed building.

3. *You must also carry out non-treatment activities, such as storing and transferring waste (including loading and unloading) in enclosed buildings if these activities are likely to cause (or are causing) significant pollution at sensitive receptors which cannot be addressed by alternative measures.* [Our emphasis]

2.8 Taking into consideration the guidance in relation to when appropriate measures apply which specifies that the appropriate measures will depend on the activities being carried out, the size and simple nature of the activities and the location of the facility, and the conclusions of the ERA it is considered that it is unnecessary to enclose the waste treatment activities within a building as there is no risk that the activities are likely to cause significant pollution at sensitive receptors. The control measures in respect of dust are specified in the DEMP. The control measures in respect of noise will be specified in the NMP.

TABLES

Table 1

Waste types permitted to be accepted at Bayston Hill Quarry waste treatment facility

LoW Code	Waste description
17	**Construction and demolition wastes**
17 03	**Bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01

FIGURES

Key / Notes

Site location

Rev	Status	Drn	App	Chk	Date
	Final	KR	LJB	AW	12/07/24

Site: BAYSTON HILL QUARRY

Client: TARMAC A CRH COMPANY

Title: The site location

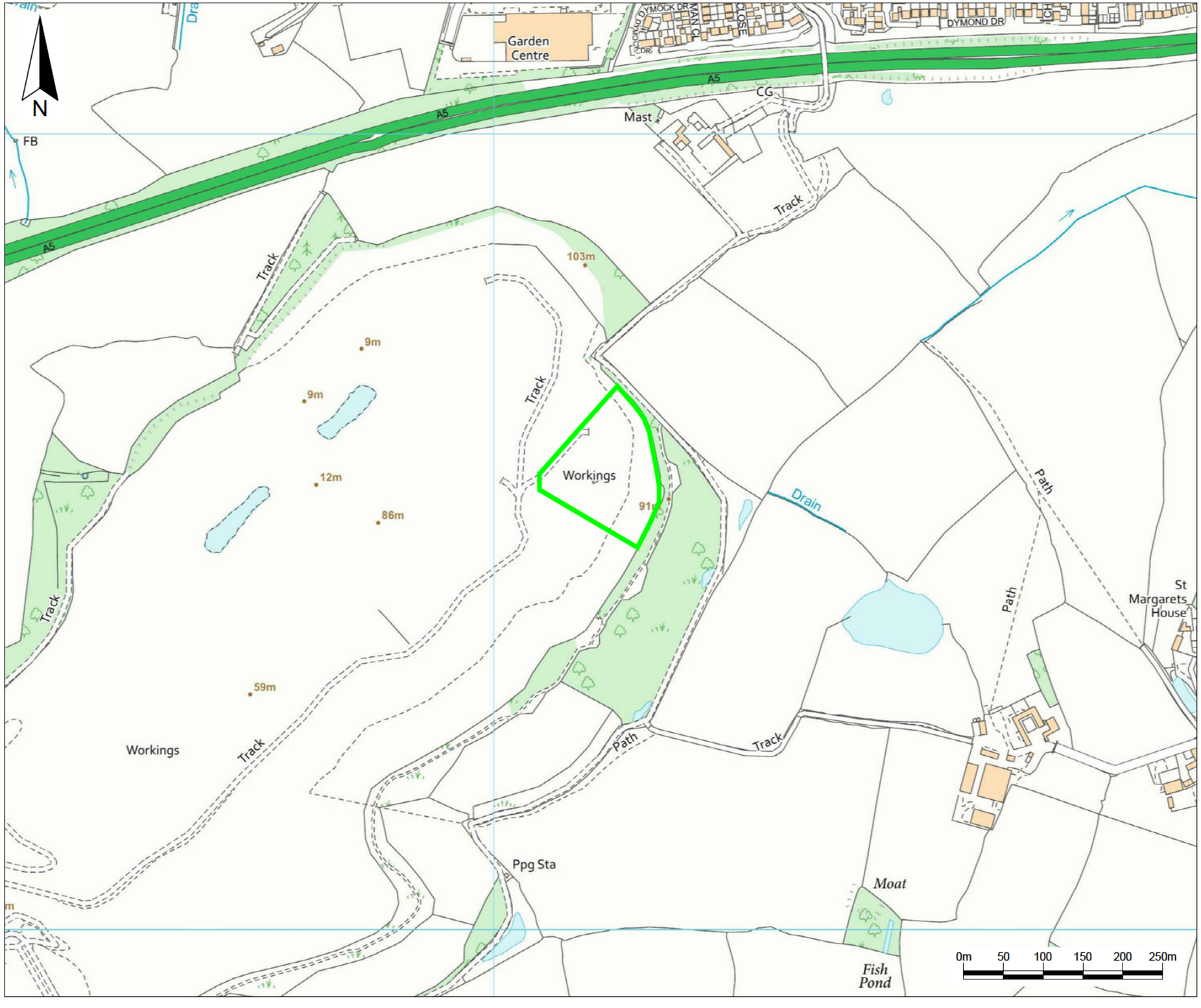
Figure 1

Scale: 1:50,000@A4

Drawing Ref: TAR/BSN/03-24/24279

MJCA
Technical advisers on environmental issues

Baddesley Colliery Offices,
Main Road, Baxterley, Atherstone,
Warwickshire, CV9 2LE.
Telephone : 01827 717891
Fax : 01827 718507



Key / Notes

Approximate Environmental Permit boundary

Rev	Status	Drn	App	Chk	Date
	Final	KR	LJB	AW	12/07/24

Site
BAYSTON HILL QUARRY

Client
TARMAC
A CRH COMPANY

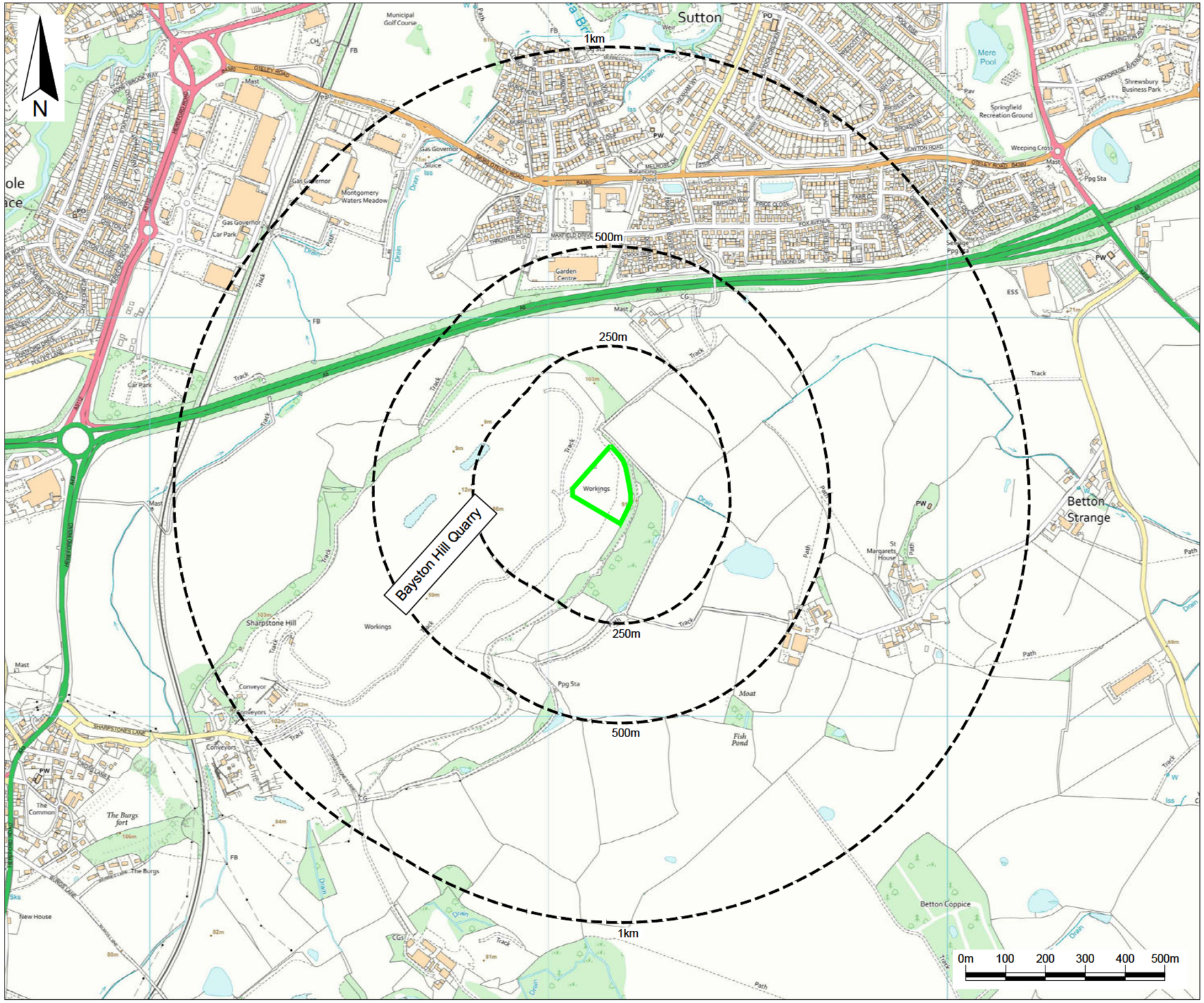
Title
Environmental Permit boundary

Figure 2

Scale
1:5,000@A4

Drawing Ref
TAR/BSN/03-24/24280

MJCA
Technical advisers on environmental issues
Baddesley Colliery Offices,
Main Road, Baxterley, Atherstone
Warwickshire, CV9 2LE.
Telephone : 01827 717891
Fax : 01827 718507



Key / Notes

Environmental Permit boundary

Offset from the Environmental Permit boundary

Rev	Status	Drn	App	Chk	Date
	Final	KR	LJB	AW	12/07/24
A	Minor amends	KR	LJB	AW	07/06/24
	Draft	KR	LJB	AW	25/03/24

Site
BAYSTON HILL QUARRY

Client
TARMAC
A CRH COMPANY

Title
The site setting

Figure 3

Scale
1:10,000@A4

Drawing Ref
TAR/BSN/03-24/24281revA

MJCA
Technical advisers on environmental issues
Baddesley Colliery Offices,
Main Road, Baxterley, Atherstone
Warwickshire, CV9 2LE.
Telephone : 01827 717891
Fax : 01827 718507

APPENDICES

APPENDIX A

PRE-APPLICATION NATURE AND HERITAGE CONSERVATION SCREENING REPORT

Nature and Heritage Conservation

Screening Report: SR2009 No 6

Reference	**EPR/XP3496EZ/P001**
NGR	**SJ 50077 09653**
Buffer (m)	**1147**
Date report produced	**25/09/2023**
Number of maps enclosed	**3**

The nature conservation sites and/or protected species identified in the table below must be considered in your application.

As you have not met the criteria for a standard rules permit, you will need to contact us for further advice on the type of permit you should apply for. Please submit a request through this link: https://www.gov.uk/government/publications/environmental-permit-pre-application-advice-form

Nature and heritage conservation sites	Screening distance (m)	Further information
Ramsar	500	Joint Nature Conservation Committee
Midland Meres & Mosses - Phase 1		
Sites of Special Scientific Interest (SSSI)	500	Natural England
Bomere, Shomere and Betton Pools		

Protected Species	Screening distance (m)	Further Information
Code 2	within 250	Natural England Appropriate Local Record Centre (LRC) National Biological Network (NBN) Environment Agency. Dial 03708 506 506 for your local Fisheries and Biodiversity team

Unfortunately we cannot provide you with the details of all protected species. This is because we either have not been given permission by the owner of the species data, or they have asked us not to identify the species as they are vulnerable. In these instances you must contact the relevant organisation listed above. A small administration charge may be incurred for this service.

Where protected species are present, a licence may be required from Natural England to handle the species or undertake the proposed works.

You are advised to obtain the necessary licences, or agree mitigation with the relevant bodies, for example Natural England, before submitting your application.

Please note we have screened this application for protected and priority sites and species for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

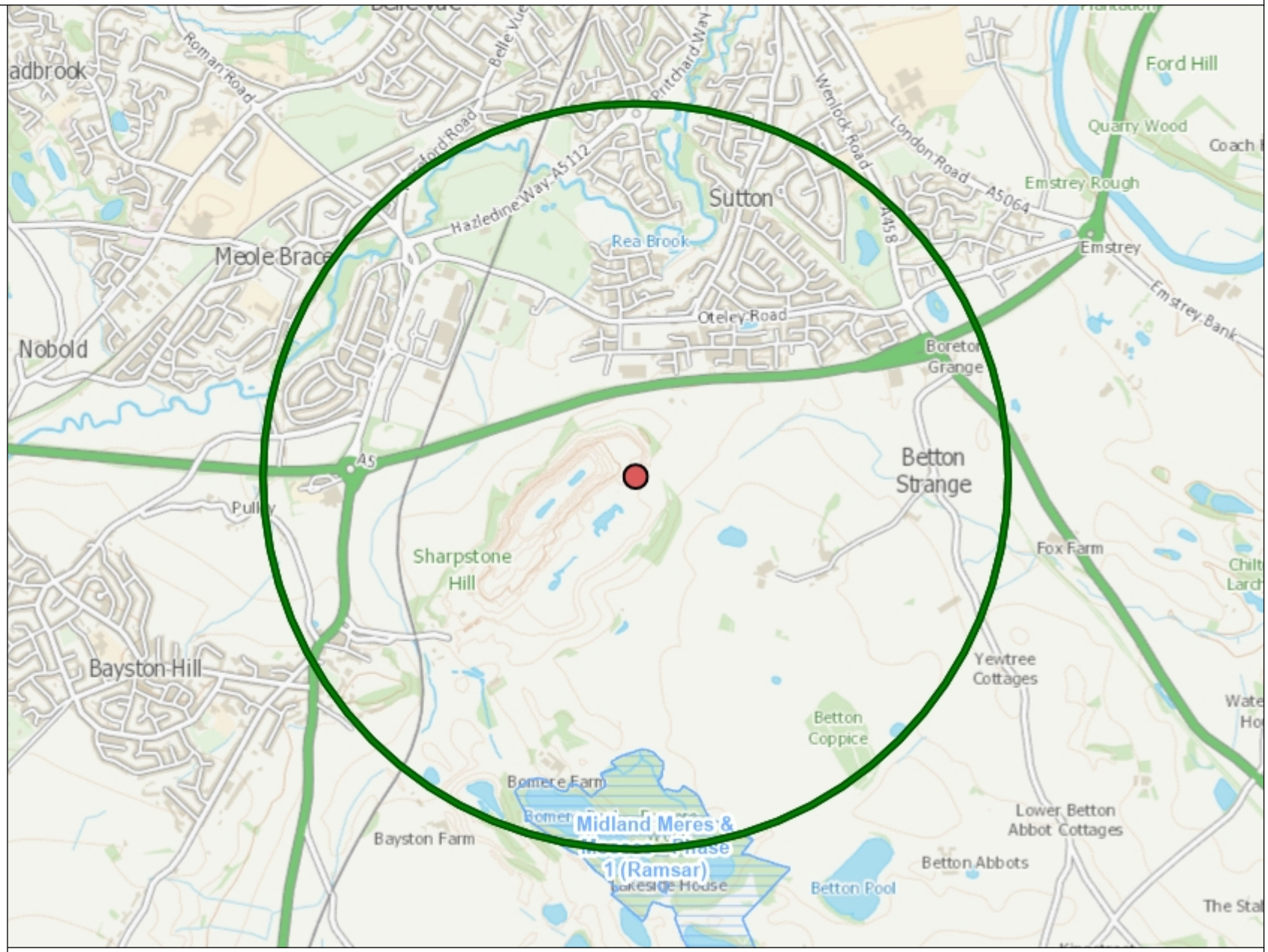
Please note the nature and heritage screening we have conducted as part of this report is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this report and the submission of the permit application, which could result in the return of an application or requesting further information.

Ramsar

Environment Agency

Legend

Ramsar (England)



1: 25,000

0 625

Metres

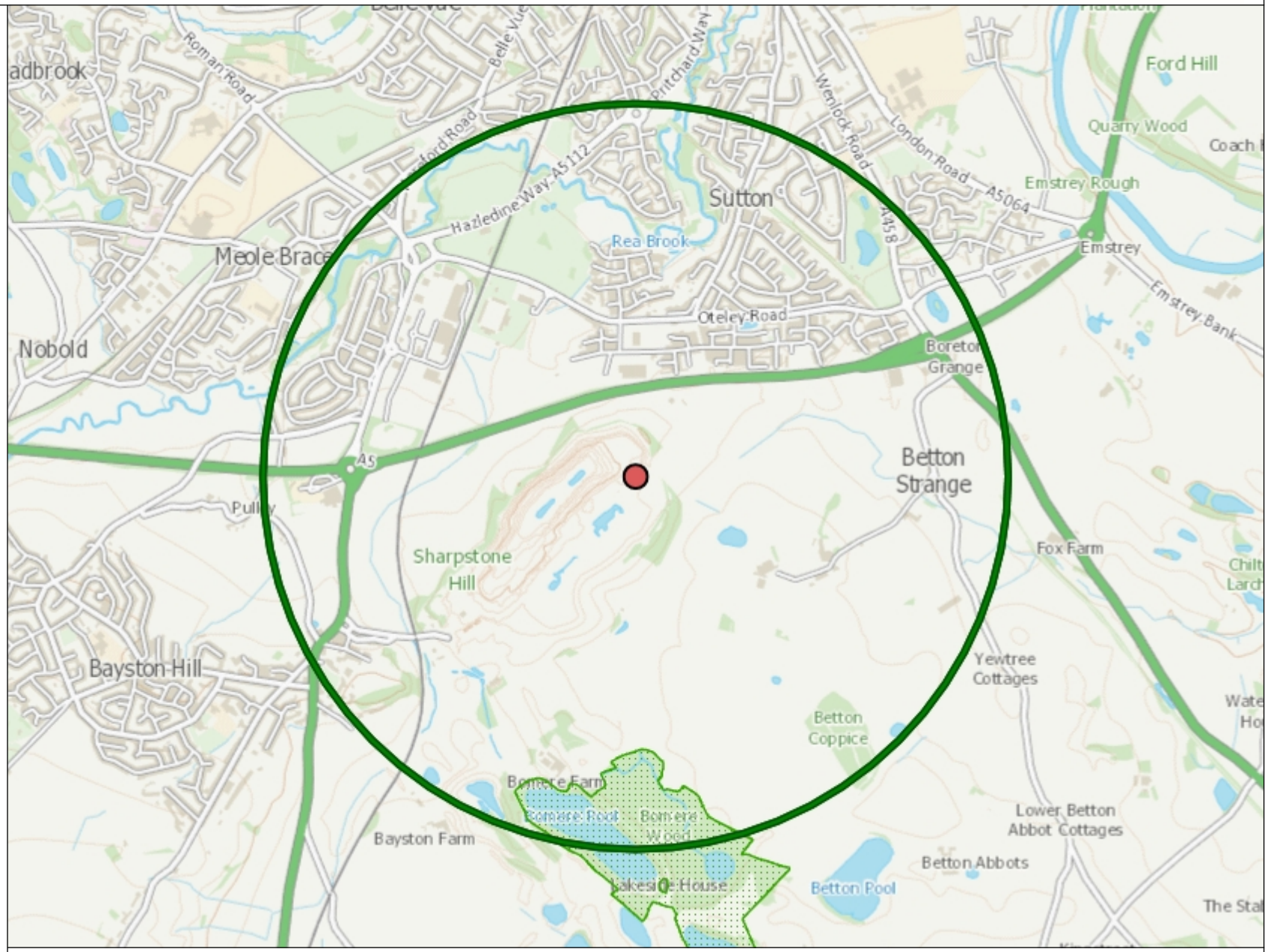
N W E S

Sites of Special Scientific Interest

Environment Agency

Legend

SSSI (England)



1: 25,000

0 625

Metres

N W E S

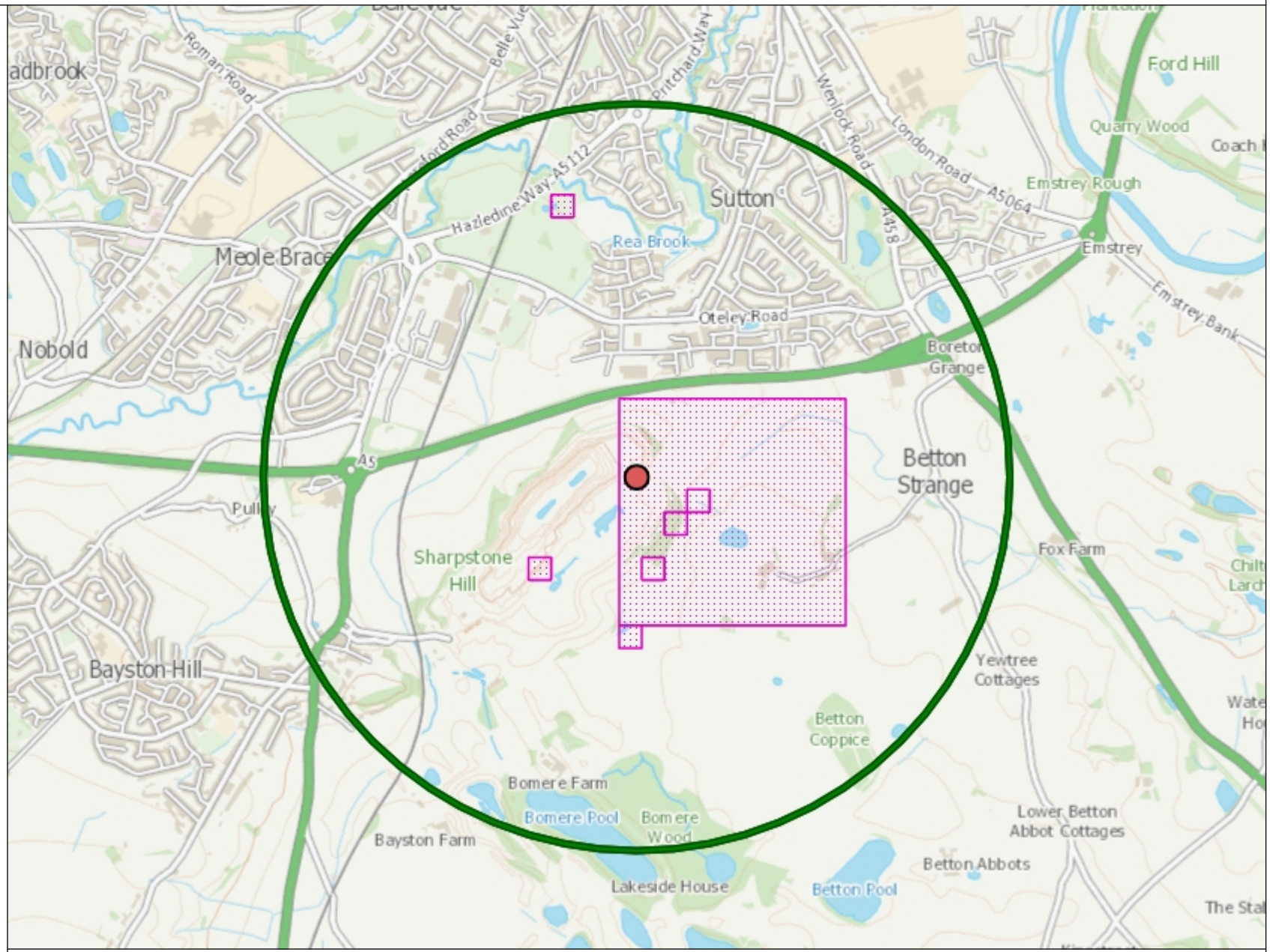
Protected Species

Environment Agency

Legend

Protected species screened for Env Permits - complete set

- Protected species, non fish
- Protected fish
- Protected fish migratory route



1: 25,000

0 625

Metres

N W E S

APPENDIX B

APPLICATION FORMS

Application for an environmental permit Part A – About you

You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or surrender your permit, or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

You can apply online for Waste standard rules environmental permits, bespoke waste permits and bespoke Medium combustion plant permits

Apply online for an environmental permit.

Please read through this form and the guidance notes that came with it.

The form can be:

1) **saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.**
2) **printed off and filled in by hand. Please write clearly in the answer spaces.**

Note: if you believe including information on a public register would not be in the interests of national security you must enclose a letter telling us that you have told the Secretary of State. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

Contents

1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual	☐	Now go to section 2 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1
An organisation of individuals (for example, a partnership)	☐	Now go to section 3 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1
A public body	☐	Now go to section 4
A registered company or other corporate body	☑	Now go to section 5 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on) _____

First name _____

Last name _____

Now go to section 6

3 Applications from an organisation of individuals or charity

3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

3b Details of the organisation or charity

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to question 3c or section 6

3c Details of charity

Full name of charity

This should be the full name of the legal entity not any trading name.

3d Company registration number

If you are registered with Companies House please tell us your registration number

3e Charity Commission number

If you are registered with the Charity Commission please tell us your registration number

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, NHS trust, local authority, English county council

4b Name of the public body

4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

5 Applications from companies or corporate bodies

5a Name of the company

TARMAC TRADING LIMITED

5b Company registration number

00453791

Date of registration (DD/MM/YYYY)

07/05/1948

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

5 Applications from companies or corporate bodies, continued

5c Please give details of the directors

If relevant, provide details of other directors and company secretary, if there is one, on a separate sheet and tell us the reference you have given this sheet.

Document reference: TAR/BSN/PF/5759/01/AR - Section 2

Details of company secretary (if relevant) and director/s

Title (Mr, Mrs, Miss and so on)

First name

Last name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

6 Your address

6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address: Tarmac Trading Limited
Ground Floor T3 Trinity Park
Bickenhill Lane
Birmingham, United Kingdom

Postcode: B37 7ES

Contact numbers, including the area code

Phone

Fax

Mobile

Email

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference

6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

6 Your address, continued

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

7 Contact details

7a Who can we contact about your application?

It will help us if there is someone we can contact if we have any questions about your application. The person you name should have the authority to act on your behalf.

Please add a second contact on a separate sheet if this person is not always available.

Document reference of this separate sheet

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on) Dr

First name Andy

Last name Wright

Address MJCA, Baddesley Colliery Offices

Main Road, Baxterley

Atherstone

Warwickshire

Postcode CV9 2LE

Contact numbers, including the area code

Phone 01827 717891

Fax

Mobile 07771 954167

Email andywright@mjca.co.uk

7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on) Ms

First name Delia

Last name Boulis

Address Meeting Street

Quorn

Loughborough

Postcode LE12 8EX

Contact numbers, including the area code

Phone 07484 543836

Fax

Mobile

Email delia.boulis@tarmac.com

7 Contact details, continued

7c Who can we contact about your billing or invoice?

Note: Please provide the name and address that all invoices should be sent to for your subsistence fees.

As in question 7a ☐

As in question 7b ☐

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)	Ms
First name	Sarah
Last name	Small
Address	Quorn House
	Meeting Street
	Quorn
	Loughborough
Postcode	LE12 8EX

Contact numbers, including the area code

Phone	07483918679
Fax	
Mobile	
Email	sarah.small@tarmac.com

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it. More information on how to do this is available at: www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

9 Where to send your application

For how many copies to send see the guidance note on part A.

For water discharges by email to PSC-WaterQuality@environment-agency.gov.uk

For waste and installations by email to PSC@environment-agency.gov.uk

For flood risk activity permits send 1 copy only to enquiries@environment-agency.gov.uk or to the local Environment Agency office for where the work is proposed to be carried out.

Or

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐ Amount received

£

Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

Date of birth information in this appendix will not be put onto our Public Register

Are you applying as an individual, an organisation of individuals (for example, a partnership) or a company (this includes Limited Liability Partnerships)?

An individual	☐ Now go to 2
An organisation of individuals (for example, a partnership)	☐ Now go to 3
A registered company or other corporate body	☑ Now go to 4

2 Applications from an individual

Please give us the following details

Name

Date of birth (DD/MM/YY)

3 Applications from an organisation of individuals or charity

Details of the organisation or charity

If you are an organisation of individuals, please give the date of birth details of the main representative below. If relevant, provide details of other members on a separate sheet and tell us the document reference you have given this sheet.

Name

Date of birth (DD/MM/YY)

Document reference

4 Applications from companies or corporate bodies

Name of the company: Tarmac Trading Limited

Please give the date of birth details for all directors and company secretary if there is one. If relevant, provide those details of other directors on a separate sheet and tell us the document reference you have given this sheet.

Details of company secretary (if relevant) and director/s

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Document reference: See TAR/BSN/PF/5759/01/AR - Section 2

Application for an environmental permit
Part B2 – General – new bespoke permit

Environment Agency

You will need to use an Adobe Acrobat product to complete this form. The form may not work properly if you use a different pdf reader, such as the one built-in to your internet browser.

Fill in this part of the form together with parts A and F1 if you are applying for a new bespoke permit. You also need to fill in part B2.5, B3, B4, B5, B6, or B7 (this depends on what activities you are applying for).

Please check that this is the latest version of the form available from our website.

Please read through this form and the accompanying Part B2 guidance notes(see **https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1102174/Guidance-app-for-an-environmental-permit-part-b2-general-new-bespoke-permit.pdf**).

The form can be:

1) saved onto a computer and then filled in.

2) printed off and filled in by hand. Please write clearly in the answer spaces

It should take less than two hours to fill in this part of the application form.

Contents

1 About the permit

1a Discussions before your application

If you have had discussions with us before your application, including having requested to submit your application in stages, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet(s).

Permit or document reference

EPR/XP3496EZ/P001 - Basic Pre - app screening

1 About the permit, continued

1b Is the permit for a site or for mobile plant?

☐ Mobile plant Now go to **question 1c**

☑ Site Now go to **section 2**

Note: The term 'mobile plant' does not include mobile sheep dipping units.

Mobile plant only

1c Have we told you during pre-application discussions that we believe that a mobile permit is suitable for your activity?

☐ No

☐ Yes

1d Have there been any changes to your proposal since this discussion?

☐ No Now go to **section 3**

☐ Yes You should send us a description of the activity you want to carry out, highlighting the changes you have made since our pre-application discussions

Document reference

Now go to **section 3**

2 About the site (excludes mobile plant)

2a What is the site name, address, postcode and national grid reference?

Site name

Bayston Hill Quarry

Address

Bayston Hill Quarry
Sharpstone Lane
Bayston Hill
Shrewsbury

Postcode

SY3 0AW

National grid reference for the middle of the site, or for water quality/groundwater activities, the discharge point (for example, ST 12345 67890).

SJ 50136 09540

2 About the site (excludes mobile plant), continued

2b What type of regulated facility are you applying for?

Note: if you are applying for more than one regulated facility then go to 2c.

- ☐ Installation
- ☑ Waste operation
- ☐ Mining waste operation
- ☐ Water discharge activity
- ☐ Groundwater activity (point source)
- ☐ Groundwater activity (discharge onto land)

What is the national grid reference for the regulated facility (if only one)?
(**See the guidance notes on part B2**.)

- ☑ As in 2a above
- ☐ Different from that in 2a Please fill in the national grid reference below

National grid reference for the regulated facility

Now go to **question 2d**

2c If you are applying for more than one regulated facility on your site, what are their types and their grid references?

See the guidance notes on part B2.

Regulated facility 1

National grid reference

What is the regulated facility type?

- ☐ Installation
- ☐ Waste operation
- ☐ Mining waste operation
- ☐ Water discharge activity
- ☐ Groundwater activity (point source)
- ☐ Groundwater activity (discharge onto land)

2 About the site (excludes mobile plant), continued

Regulated facility 2

National grid reference

What is the regulated facility type?

- ☐ Installation
- ☐ Waste operation
- ☐ Mining waste operation
- ☐ Water discharge activity
- ☐ Groundwater activity (point source)
- ☐ Groundwater activity (discharge onto land)

Use several copies of this page or separate sheets if you have a long list of regulated facilities. Send them to us with your application form. Tell us below the reference you have given these extra sheets.

Document reference

Now go to **question 2d**

2d Low impact installations (installations only)

Are any of the regulated facilities low impact installations?

- ☑ No
- ☐ Yes If yes, tell us how you meet the conditions for a low impact installation (**see the guidance notes on part B2** – Appendix 1).

Document reference

- ☐ Tick the box to confirm you have filled in the low impact installation checklist in **appendix 1** for each regulated facility

2e Treating batteries

Are you planning to treat batteries? (**See the guidance notes on part B2**.)

- ☑ No
- ☐ Yes Tell us how you will do this, send us a copy of your explanation and tell us below the reference you have given this explanation

Document reference for the explanation

2 About the site (excludes mobile plant), continued

2f Ship recycling

Is your activity covered by the Ship Recycling Regulations 2015? (**See the guidance notes on part B2**.)

☑ No

☐ Yes Tell us how you will do this. Please send us a copy of your explanation and your facility recycling plan, and tell us below the reference numbers you have given these documents

Document reference for the explanation

Document reference for the facility recycling plan

2g Multi-operator installation

If the site is a multi-operator site (that is there is more than one operator of the installation) then fill in the table below the application reference for each of the other permits.

Table 1 – Other permit application references

3 Your ability as an operator

If you are only applying for a standalone water discharge or for a groundwater activity, you only have to fill in **question 3d**.

3a Relevant offences

Applies to all except standalone surface water discharges and groundwater discharges (**see the guidance notes on part B2**).

Have you, or any other relevant person, been convicted of any relevant offence? (see https://www.gov.uk/government/publications/relevant-conviction-guidance-for-permit-applications-for-waste-activities-and-installations-only)

☑ No Now go to **question 3b**

☐ Yes Please give details below

3 Your ability as an operator, continued

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position held at the time of the offence

Name of the court where the case was dealt with

Date of the conviction (DD/MM/YYYY)

Offence and penalty set

Date any appeal against the conviction will be heard (DD/MM/YYYY)

If necessary, use a separate sheet to give us details of other relevant offences and tell us below the reference number you have given the extra sheet.

Now go to **question 3b**

Please also complete the details in **Appendix 2**.

3b Technical ability

Relevant waste operations only (see the guidance notes on part B2).

Please indicate which of the two schemes you are using to demonstrate you are technically competent to operate your facility and the evidence you have enclosed to demonstrate this.

ESA/EU skills

Please select one of the following:

☐ I have enclosed a copy of the current Competence Management System certificate

or

☐ We will have a certified Competence Management System within 12 months and have enclosed evidence of the contract with an accredited certification body

3 Your ability as an operator, continued

CIWM/WAMITAB scheme

Your answers below must relate to the person(s) providing technically competent management when the permitted activities start.

Please select **one** of the following:

- I have enclosed a copy of:

  ☑ the relevant qualification certificate/s

  or

  ☐ evidence of deemed competence

  or

  ☐ Environment Agency assessment

  or

  ☐ evidence of nominated manager status under the transitional provisions for previously exempt activities

  and, if deemed competent or Agency-assessed, or nominated manager, or if the original qualification is over two years old:

  ☐ I have enclosed a copy of the relevant current continuing competence certificate/s

- ☐ The technically competent manager will complete their qualification within four weeks of starting the permitted activities and I have enclosed evidence of their registration with WAMITAB or their EPOC booking as appropriate

- **For medium- and high-risk tier activities other than landfill**

  ☐ The technically competent manager will complete the qualification within 12 months and I have enclosed evidence of their registration with WAMITAB and, where relevant, EPOC booking. I understand they must complete either four specified units of the relevant qualification or an EPOC within four weeks of the permitted activities commencing

For each technically competent manager please give the following information. If necessary, use a separate sheet to give us these details and tell us below the document reference you have given the extra sheet.

Title (Mr, Mrs, Miss and so on)

Mr

First name

Oliver

Last name

Williams

Phone

Mobile

Email

oliver.williams@tarmac.com

3 Your ability as an operator, continued

Please provide the environmental permit number/s and site address for all other waste operations, (**see part B2 guidance notes**), that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

Permit number	Site address	Postcode
	No other sites covered	

Document reference

TAR/BSN/LJB/5759/01 - Appendix H

Now go to **question 3c**

Please also complete the details in **Appendix 2**.

3c Finances

Installations, waste operations and mining waste operations only.

Please note that if you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

Do you, or any relevant person, or a company in which you (or they) (or any relevant person) were a relevant person, have current or past bankruptcy or insolvency proceedings against you?

☑ No

☐ Yes Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed

We may want to contact a credit reference agency for a report about your business's finances.

See **Environmental permits privacy notice - GOV.UK (www.gov.uk)** for how we use your personal information to support environmental permitting.

3 Your ability as an operator, continued

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

- ☐ Renewable bonds
- ☐ Cash deposits with the Environment Agency
- ☐ Other – provide comprehensive details

Document reference

Provide a cost profile and expenditure plan of your estimated costs throughout the aftercare period of your site.

Document plan reference

Now go to **question 3d**

3d Management systems (all)

You must have an effective, written management system in place that identifies and reduces the risk of pollution. You may show this by using a certified scheme or your own system.

Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You need to be able to explain what happens at each site and which parts of the overall management system apply. For example, at some sites you may need to show you are carrying out additional measures to prevent pollution because they are nearer to sensitive locations than others.

For waste and installation permits only: your management system must also explain your resilience to climate change.

You can find guidance on management systems on our website at **https://www.gov.uk/guidance/develop-a-management-system-environmental-permits**

- ☑ **Tick this box to confirm that you have read the guidance and that your management system will meet our requirements**

What management system will you provide for your regulated facility?

- ☑ ISO 14001
- ☐ BS 8555 (Phases 1–5)
- ☐ BS EN ISO 14005:2019
- ☐ Green dragon
- ☐ Own management system
- ☐ EMAS Global
- ☐ Other

Please send us a summary of the management system you are using and a copy of your accreditation (if applicable) with your application.

Document reference/s

TAR/BSN/LJB/5759/01 - Appendix H

4 Consultation

Fill in 4a to 4c for installations and waste operations and 4d for installations only.

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker?

☑ No

☐ Yes Please name the sewerage undertaker

4b A harbour managed by a harbour authority?

☑ No

☐ Yes Please name the harbour authority

4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

☑ No

☐ Yes Please name the fisheries committee

4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

☐ No

☐ Yes

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 2015, or a safety report is needed under regulation 7 of those Regulations?

☐ No

☐ Yes

5 Supporting information

5a Provide a plan or plans for the site

But not any mobile plant

Clearly mark the site boundary or discharge point, or both. The site plan must be legible at A4 size, drawn to scale and include a scale bar.

5 Supporting information, continued

Also include site drainage plans, site layout plans, and plant design drawings/process flow diagrams (as required). (**See the guidance notes on part B2**.)

Document reference/s of the plans

TAR/BSN/LJB/5759/01/AR - Figures 1, 2, 3

5b Provide the relevant sections of a site condition/baseline report if this applies

See the guidance notes on part B2

Document reference of the report

TAR/BSN/LJB/5759/01/SCR

☐ If you are applying for an installation, tick the box to confirm that you have sent in a baseline report

5c Provide a non-technical summary of your application

See the guidance notes on part B2 for what needs to be included.

Document reference of the summary

TAR/BSN/LJB/5759/01/NTS

5d Are you applying for an activity that includes the storage of combustible wastes?

This applies to all activities excluding standalone water and groundwater discharges.

☑ No

☐ Yes Provide a fire prevention plan (**see the guidance notes on part B2**).

Document reference of the plan

6 Environmental risk assessment

Provide an assessment of the risks each of your proposed regulated facilities poses to the environment. The risk assessment must follow the methodology set out in 'Risk assessments for your environmental permit' at **Risk assessments for your environmental permit – GOV.UK (www.gov.uk)** or an equivalent method.

For air dispersion modelling see: **Environmental permitting: air dispersion modelling reports – GOV.UK (www.gov.uk)**

Document reference(s) for the assessments, including modelling reports and files where applicable

TAR/BSN/LJB/5759/01/ERA

7 How to contact us

If you have difficulty using this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: **enquiries@environment-agency.gov.uk**

7 How to contact us, continued

Website: **www.gov.uk/government/organisations/environment-agency**

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

☐ Yes please

☐ No thank you

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

☐ No

☐ Yes

Amount received (£)

Appendix 1 – Low impact installation checklist

Low impact installation criterion (see the Part B2 guidance notes)	Section of supporting document that shows how your proposed activity meets the LII criterion	Do you meet LII criterion?
A – Management techniques		☐ Yes ☐ No
B – Wastewater		☐ Yes ☐ No
C – Abatement systems/ releases to air		☐ Yes ☐ No
D – Emissions to groundwater		☐ Yes ☐ No
E – Waste production		☐ Yes ☐ No
F – Energy consumption		☐ Yes ☐ No
G – Accident prevention		☐ Yes ☐ No
H – Noise		☐ Yes ☐ No
I – Emissions of polluting substances		☐ Yes ☐ No
J – Odours		☐ Yes ☐ No
K – Compliance history		☐ Yes ☐ No

If you answered 'No' to any of the questions above, your installation cannot be considered as a low impact installation.

Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

Date of birth information in this appendix will not be put onto our Public Register. Continue on a separate sheet if necessary

1. Relevant Offences – date of birth information for relevant persons(s)

Please give us the following details if you have answered 'Yes' to question 3a

Name

Date of birth (DD/MM/YYYY)

2. Technical ability – date of birth information for technically competent manager(s)

Please give us the following details (relevant waste operations only)

Name

Oliver Williams

Date of birth (DD/MM/YYYY)

20/12/1985

Application for an environmental permit
Part B4 – New bespoke waste operation permit

Environment Agency

Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a waste operation. Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

You can apply online for waste bespoke environmental permits.

Apply online for an environmental permit.

The form can be:

1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

1 What waste operations are you applying for?

Fill in Table 1a with details of what you are applying for.

Fill in a separate table for each waste operation you are applying for. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given the extra sheet.

Document reference

Types of waste accepted

For each line in Table 1a, fill in a separate document to list those wastes you will accept on the site for that operation, giving the List of Wastes catalogue code (search for 'Technical guidance on how to assess and classify waste' at www.gov.uk/government/organisations/environment-agency). If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

1 What waste operations are you applying for?, continued

Table 1a – Waste operations which do not form part of an installation

Name of the waste operation	Description of the waste operation	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 1)	Non-hazardous waste treatment capacity (if this applies) (See note 1)
Add extra rows if you need them. If you do not have enough room, go to the line below or send a separate document and give us the document reference here	Use the description from the guidance. Include any extra detail that you think would help to accurately describe what you want to do			
Bayston Hill Quarry	Inert and excavation waste transfer station and treatment facility	D15, R13, D14, D9, R3, R5		
For all waste operations	Total storage capacity (see note 2)			
	Annual throughput (tonnes each year)			250,000.00

Notes

1 By 'capacity', we mean:

- the total landfill capacity (cubic metres) for landfills
- the total treatment capacity (tonnes each day) for waste treatment
- the total storage capacity (tonnes) for waste-storage operations

2 By 'total storage capacity', we mean the maximum amount of waste in tonnes you store on the site at any one time.

1 What waste operations are you applying to vary?, continued

Please provide the document reference. You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

1c Deposit for recovery purposes (see Appendix 4 and the guidance notes on part B4)

Are you applying for a waste recovery activity involving the permanent deposit on waste on land for construction or land reclamation (including landfill restoration)?

No ☑ Go to section 2

Yes ☐

Are you applying for an inert landfill permit that includes a restoration activity using waste?

No ☑ Go to section 2

Yes ☐ Please send us a copy of your restoration plan in accordance with our guidance at https://www.gov.uk/guidance/landfill-operators-environmental-permits/restore-your-landfill-site

Have we advised you during pre-application discussions that we believe the activity is waste recovery?

No ☐ Go to section 2

Yes ☐

Have there been any changes to your proposal since the discussions?

No ☐

Yes ☐

Please send us a copy of your waste recovery plan that complies with our guidance at https://www.gov.uk/guidance/waste-recovery-plans-and-permits. You need to highlight any changes you have made since your pre-application discussions. Also give us the reference number of the document with your justification.

Please note that there is an additional charge for the assessment of a waste recovery plan that must be submitted as part of this application. For the charge see https://www.gov.uk/topic/environmental-management/environmental-permits.

Document reference

2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your waste operations.

Fill in one table for each waste operation.

Table 2 – Emissions

Name of the waste operation	Bayston Hill Quarry			
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
There are no point source emissions to air				
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
There are no point source emissions to water				
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
There are no point source emissions to sewer				
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit
N/A				
There are no point source emissions to land				

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each waste operation you refer to in Table 1a above and list the 'appropriate measures' you are planning to use. If you are using the standards set out in the relevant technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

You must justify your decisions in a separate document if:

- there is no technical standard
- the technical guidance provides a choice of standards, or
- you plan to use another standard

This justification could include a reference to the Environmental Risk Assessment provided in part B2 of the application form.

Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant technical guidance
- how you will meet other standards set out in the relevant technical guidance

Table 3a – Technical standards

Fill in a separate table for each waste operation.

Waste operation	Bayson Hill Quarry	
Description of the waste operation Add extra rows if you need them	Appropriate measure (TGN reference)	Document reference (if appropriate)
Inert and excavation waste transfer station	Control and monitor emissions for your environ.	
and treatment facility	permit	
	Develop a management system: environ permits	
	Guidance on the assessments for Environmental	
	Permits published on GOV.UK	
	Non-hazardous and inert waste: appropriate	
	measures for permitted facilities	

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference: TAR/BSN/LJB/5759/01/AR - Section 2

3b General requirements

Fill in a separate table for each waste operation.

Table 3b – General requirements

Name of the waste operation	Bayston Hill Quarry
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references TAR/BSN/LJB/5759/01/DEMP
If the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan. **If your activity type is listed in the guidance document 'Control and monitor emissions for your environmental permit' as needing an odour management plan, or your risk assessment shows that odours are an important issue, you need to send us your odour management plan.**	Document reference or references N/A - Not required based on the Environmental Risk Assessment
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references NIA to be provided under separate cover

3 Operating techniques, continued

We may need to ask for management plans or risk assessments in other circumstances based on our regulatory experience. If you are unsure as to whether you need to submit a management plan with your application, please discuss this with the Environment Agency prior to submission.

Search for 'Risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency.

3c Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed in Table 3c, you must answer the questions in the related document.

Table 3c – Questions for specific sectors

Sector	Appendix
Recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes	See the questions in appendix 1
Inert landfill and deposit of waste on land for construction, land reclamation, restoration or improvement	See the questions in appendix 2

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures
- the methods you use
- the procedures you follow to assess the measures

Document reference: N/A - There are no emission points in Table 2

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use M1 (search for 'M1 sampling requirements for stack emission monitoring' at www.gov.uk/government/organisations/environment-agency).

Document reference of the assessment: N/A - There are no point source emissions to air

5 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

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How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please ☐

No thank you ☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐ Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 2.

Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes

1 Please provide an accurate and reliable characterisation of your compost like outputs (CLO). This should be based on sampling and analysis of the CLO produced by the treatment (MBT) process over a 12-month period and in accordance with section 2 of TGN 6.15

Document reference

2 Please provide an agricultural benefit assessment for the use of your CLO. This should be based on section 2 of TGN 6.15 and should be signed and dated by an appropriate technical expert

Document reference

3 Please provide a site-specific risk assessment of risks to soil and food chain receptors. This should be based on Schedule 2 of TGN 6.15 and include a map with a green outline showing the boundary of the area being treated and include:

- locations where the waste will be stored and spread
- any spring, well or borehole used to supply water for domestic or food production purposes that is within 250 metres of the area being treated
- any spring, well or borehole not being used for domestic or food production purposes that is within 50 metres of the area being treated
- any European designated sites (candidate or Special Area of Conservation, proposed or Special Protections Area in England and Wales or Ramsar Site) or Sites of Special Scientific Interest (SSSI) which are within 500 metres of the place where waste is to be stored or spread
- the location of public rights of way
- any Groundwater Source Protection Zones
- surface watercourses
- any buildings or houses within 250 metres of the area being treated
- land drains within the boundary

Document reference

4 Are the technical standards and measures fully in line with those set out in section 3 of TGN 6.15?

No ☐ Provide justification for departure from TGN 6.15 and a copy of the proposed technical standards, measures or procedures

Document reference

Yes ☐

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations

1 Please provide your Environmental Setting and Site Design (ESSD) report

Document reference

Note: You should use the Environment Agency template to help you develop an environmental setting and site design (ESSD) report.

2 Please provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)

Document reference

3 Have you provided a hydrogeological risk assessment (HRA) for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

4 Have you completed an outline engineering plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

5 Have you provided a stability risk assessment (SRA) for your site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations, continued

6 Have you completed a monitoring plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

7 Have you completed a plan for closing the site and procedures for looking after the site once it has closed?

No ☐ If no for deposit for recovery activities please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ For inert waste landfill you must provide a closure plan

Document reference

Spreading waste to support plant growth

8a Does the activity involve the deposit of waste to create or treat a growing medium (R10 for land treatment)?

No ☐

Yes ☐

8b If you answered 'yes' to question 8a, does the R10 activity include the spreading of waste to improve the quality of the growing medium (e.g. soil conditioner to improve existing soil profile)?

No ☐

Yes ☐ Go to question 8c

8c If you have answered 'Yes' to question 8b, have you completed a benefit statement?

No ☐ Please explain why

Document reference

Yes ☐

Note: Refer to our guidance when completing your statement (including EPR 8.01, section 6).

Application for an environmental permit Part F1 – Charges and declarations

You will need to use an Adobe Acrobat reader product to complete this form. The form may not work properly if you use a different pdf reader, such as the one built-in to your internet browser.

Fill in this part for all applications for:

- installations (excluding new permit and variation applications for intensive farming. Use application form Part B3.5 or C3.5 instead)
- waste operations
- mining waste operations
- medium combustion plant
- specified generators
- water discharges (excluding small discharges of 23m^3 per day if using Part B6.5)
- groundwater activities (excluding small discharges of 15m^3 per day or less if using Part B6.5 OR existing small discharges to Source Protection Zone1 if using Part B6.6)

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

The form can be:

1) saved onto a computer and then filled in.
2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than two hours to fill in this part of the application form.

Contents

1 Working out charges

You must fill in this section.

You have to submit an application fee with your application. For guidance on the fee and how to pay your charges, please see our charging guidance (**https://www.gov.uk/government/publications/environmental-permitting-charges-guidance**) and associated links to the current charging scheme. You can also contact us for pre-application to help work out charges

Please that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

1 Working out charges, continued

Table 1 – Type of application (fill number of activity being applied for in each column)

Installation	Waste	Mining waste	Medium Combustion Plant (MCP)/ Specified Generator (SG)	Water discharge	Groundwater activity
	Bayston Hill				
	Quarry				
	Transfer and				
	Treatment facility				
	1				

Table 2 – Charge type (A)

Charge activity reference	Charge activity description	What are you applying to do? For example, a new permit, minor variation, normal variation, substantial variation, surrender, low risk surrender, transfer	Amount
e.g. 1.17.3	e.g. Section 5.2 – landfill for hazardous waste	e.g. transfer application	e.g. £5,561
1.16.12	Physical treatment of non - hazardous	a new permit	£7,930
	waste		
Total A			£7,930

1 Working out charges, continued

Table 3 – Additional assessment charges (B)

Part 1.19 Charges for plans and assessments			Tick appropriate
Reference	Plan or assessment	Charge	
1.19.1	Waste recovery plan	£1,231	☐
1.19.2	Habitats assessment (except where the application activity is a flood risk activity)	£779	☐
1.19.3	Fire prevention plan (except where the application activity is a farming installation)	£1,241	☐
1.19.4	Pests management plan (except where the application activity is a farming installation)	£1,241	☐
1.19.5	Emissions management plan (except where the application activity is a farming installation)	£1,241	☑
1.19.6	Odour management plan (except where the application activity is a farming installation)	£1,246	☐
1.19.7	Noise and vibration management plan (except where the application activity is a farming installation)	£1,246	☑
1.19.8	Ammonia emissions risk assessment (intensive farming applications only)	£620	☐
1.19.9	Dust and bio-aerosol management plan (intensive farming applications only)	£620	☐
	Advertising	£500	☐
Total B			

Total charges

Total A plus total B

10417

2 Payment

Tick below to show how you have paid.

☐ Cheque

☐ Credit or debit card

☑ Electronic transfer (for example, BACS)

Cheques

You should make cheques payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque. We will not accept cheques with a future date on them.

2 Payment, continued

Credit/debit cards

If you are paying by credit or with debit card we will call you. We can accept payments by Visa, MasterCard or Maestro card only.

☐ Call me to arrange payment by debit or credit card

Electronic transfer BACS

If you choose to pay by electronic transfer, you will need to use the following information to make your payment:

Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/NatWest
Address	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB
Sort code	60-70-80
Account number	10014411
Account name	EA RECEIPTS
Payment reference number	PSCAPPXXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

You should also email your payment details and reference number to **ea_fsc_ar@gov.sscl.com**.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23NWBK60708010014411 and our SWIFTBIC number is NWBKGB2L.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Provide a unique reference number for the application, i.e. do not only use the company name only

PSCAPPTARBS001

State who is paying (full name and whether this is the agent/applicant/other)

Tarmac Trading Ltd - Applicant

Fee paid

£ 10417

Date payment sent (DD/MM/YYYY)

26/06/2024

3 Privacy notice

The Environment Agency runs the environmental permit application service.

See **https://www.gov.uk/guidance/environmental-permits-privacy-notice** for how we use your personal information in services to services to support environmental permitting.

4 Confidentiality and national security

Confidentiality

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application. You can find guidance on confidentiality in 'Environmental permitting guidance: core guidance', published by Defra and available at **https://www.gov.uk/government/publications/environmental-permitting-guidance-core-guidance--2**.

Only tick the box below if you wish to claim confidentiality for parts of your application

☐ Please treat the specified information in my application as confidential

National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in 'Environmental permitting guidance: core guidance', published by Defra and available at **https://www.gov.uk/government/publications/environmental-permitting-guidance-core-guidance--2**

You cannot apply for national security via this application.

Now fill in section 5

5 Declaration

If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading 'For transfers only'.

Note: we will issue a letter to both current and new holders to confirm the transfer. If you are changing address we will need to send this letter to your new address; therefore please tell us your new address in a separate letter.

If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.

5 Declaration, continued

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

☑ Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

☐ I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities)

☐ Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

Name

Title

Ms

First name

Delia

Last name

Boulis

on behalf of (if relevant; for example, a company or organisation and so on)

Tarmac Trading Ltd

Position (if relevant; for example, a company or organisation and so on)

Permitting and Compliance Manager

Today's date (DD/MM/YYYY)

12/07/2024

For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

☐ Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

5 Declaration, continued

Name

Title

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, a company or organisation and so on)

Today's date (DD/MM/YYYY)

Now go to section 6

6 Application checklist

You must fill in this section.

If your application is not complete, we will return it to you. If you aren't sure about what you need to send, contact us before you submit your application. For further information on pre-application advice, see **https://www.gov.uk/guidance/get-advice-before-you-apply-for-an-environmental-permit.**

You must do the following:

- ☑ Complete legibly all parts of the application form that are relevant to you and your activities
- ☑ Identify relevant supporting information in the form and send it with the application
- ☑ List all the documents you are sending in the table below. If necessary, continue on a separate sheet. This separate sheet also needs to have a reference number and you should include it in the table below
- ☑ For new permit applications or any changes to the site plan, provide a plan that meets the standards given in the guidance note on part F1
- ☐ Provide a supporting letter for any claim that information is confidential
- ☑ Get the declaration completed by a relevant person (not an agent)
- ☑ Send the correct fee

6 Application checklist, continued

Question reference	Document title	Document reference
Part A, Q5c	Directors DOBs	TAR/BSN/LJB/5759/01/AR - Section 2
Part B2, Q3d	Environmental Management System	TAR/BSN/LJB/5759/01 - Appendix H
Part B2, Q5a	Site plan	TAR/BSN/LJB/5759/01/AR - Figure1,2,3
Part B2, Q5b	Site Condition Report	TAR/BSN/LJB/5759/01/SCR
Part B2, Q5c	Non - Technical Summary	TAR/BSN/LJB/5759/01/NTS
Part B2, Q6	Environmental Risk Assessment	TAR/BSN/LJB/5759/01/ERA
Part B4, Q3a	Site Condition Report	TAR/BSN/LJB/5759/01/SCR
Part B4, Q3b	Dust and Emissions Management Plan	TAR/BSN/LJB/5759/01/DEMP

7 How to contact us

If you have difficulty filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: **enquiries@environment-agency.gov.uk**

Website: **www.gov.uk/government/organisations/environment-agency**

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, or you would like us to review a decision we have made, please let us know. More information on how to do this is available at: **https://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.**

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

8 Where to send your application

For how many copies to send see the guidance note on part F1.

Please send your filled in application form and supporting documents to:

For water discharges and groundwater activities by email to
PSC-WaterQuality@environment-agency.gov.uk

For waste, installations, medium combustion plant and specified generators by email to
PSC@environment-agency.gov.uk

For large electronic documents (too large for email attachment) you can upload your applications to file sharing sites and send us a link to download the documents. Alternatively, you can send more than one email with documents attached.

Or by post to:

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Do you want all information to be sent to you by email?

☑ Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in part A)

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

☐ Yes please

☐ No thank you

Crystal Mark 19132 Clarity approved by Plain English Campaign

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

☐ No

☐ Yes

Amount received (£)

APPENDIX C

NON-TECHNICAL SUMMARY

An application for a bespoke environmental permit for an inert and excavation waste treatment facility to be operated by tarmac at bayston hill quarry, sharpstone lane, shrewsbury, SY3 0AW

Non-technical Summary

1.1 MJCA is commissioned by Tarmac Trading Limited (Tarmac) to prepare an application for a bespoke Environmental Permit for an inert and excavation waste treatment facility to be operated by Tarmac at Bayston Hill Quarry, Sharpstone Lane, Shrewsbury, SY3 0AW (the site). The site is centred approximately at National Grid Reference (NGR) SJ 50136 09540 and covers an area measuring approximately 1.8 hectares. The waste treatment facility will be located in the north west corner of the wider Baston Hill Quarry which covers an area of approximately 65 hectares.

1.2 The proposed activities will be consistent generally with the activities that are authorised under Environment Agency Standard Rules SR2009No6 - inert and excavation waste transfer station with treatment, with the total quantity of waste accepted at the site less than 250,000 tonnes per annum (tpa). Initially, Tarmac proposed to apply for Standard Rules SR2009 No6, however, a pre-application Nature and Heritage Conservation Screening Report received from the Environment Agency for the proposed site location, indicated that the site does not meet the Standard Rules due to the potential for the presence of Great Crested Newts within 250m of the site. On this basis, the site requires a bespoke permit.

1.3 The waste types that are proposed to be accepted at the site are limited to a single waste type, 17 03 02 bituminous mixtures other than those mentioned in 17 03 01. The site will comprise a site for the receipt, storage and processing by crushing and screening of road planings and returned asphalt. Road planings and returned asphalt will be transported to the site by road and following processing will be removed from the permitted site for recovery at a suitably authorised facility (for example a roadstone coating plant).

1.4 This application has been prepared with reference to relevant guidance provided by the Environment Agency (EA) on the GOV.UK website and includes a Site Condition Report (SCR) prepared based on information presented in an Envirocheck Report. The SCR describes the condition of the site prior to operations commencing.

1.5 There are no residential receptors within 250m of the site. As shown on Figure ERA 1, a housing estate is located to the north of the site on the opposite side of the A5, just under 500m away from the site. Based on information from the Defra MAGIC website there are no National Parks, Areas of Outstanding Natural Beauty, Marine Conservation Zones, Special Protection Areas, Special Areas of Conservation or National Nature Reserves located within 2km of the site. There is one Site of Special Scientific Interest (SSSI) and one Ramsar site within 2km of the site boundary.

Bomere, Shomere and Betton Pools SSSI and Midland Meres & Mosses – Phase 1 Ramsar site are located just over 1km south of the site boundary. There are no World Heritage Sites, Scheduled Monuments or Listed Buildings within 500m of the site. The site is not located in a groundwater Source Protection Zone (SPZ) and is not located in an Air Quality Management Area (AQMA).

1.6 The application is supported by a qualitative Environmental Risk Assessment (ERA) for accidents, odour, noise and fugitive emissions. The ERA assesses the potential impacts to the surrounding environment from the proposed activities at the site. In the ERA it is concluded that the operation of the facility has a low or very low risk of adverse impact on the surrounding environment including sites of heritage or nature conservation interest. Based on the assessment presented in the ERA it is unnecessary to provide an odour management plan with this application.

1.7 A dust and emissions management plan (DEMP) is presented and identifies the operations at the site which may have the potential to have an impact on air quality as a result of emissions of particulate matter, presents the details of the operational controls which are implemented to minimise emissions and describes the monitoring which will be carried out to confirm the effectiveness of the management controls.

1.8 Although it is considered unlikely that the limited activities will have a significant environmental impact in respect of noise, a noise impact assessment (NIA) will be undertaken, and a noise management plan (NMP) will be prepared based on the findings of the NIA. Based on operational changes currently ongoing in the wider Bayston Hill Quarry, at the time of preparation of this application in June 2024 it was not considered to be the most suitable time to record baseline noise conditions at the site. It is proposed that a NIA will be undertaken in the autumn of 2024 and will be provided to the Environment Agency under separate cover.

1.9 Consistent with Condition 1.1.1 of the permit, the site will be managed in accordance with an ISO 14001 Environmental Management System (EMS) using sufficient competent persons and resources.

APPENDIX D

SITE CONDITION REPORT

SITE CONDITION REPORT TEMPLATE

For full details, see H5 *SCR guide for applicants* v2.0 4 August 2008

COMPLETE SECTIONS 1-3 AND SUBMIT WITH APPLICATION

DURING THE LIFE OF THE PERMIT: MAINTAIN SECTIONS 4-7

AT SURRENDER: ADD NEW DOC REFERENCE IN 1.0; COMPLETE SECTIONS 8-10; & SUBMIT WITH YOUR SURRENDER APPLICATION.

1.0 SITE DETAILS	
Name of the applicant	Tarmac Trading Limited
Activity address	Bayston Hill Quarry Sharpstone Lane Bayston Hill Shrewsbury SY3 0AW
National grid reference	SJ 50136 09540

Document reference and dates for Site Condition Report at permit application and surrender	Permit Application TAR_BSNc30834scr dated July 2024.

Document references for site plans (including location and boundaries)	Figure 1 (reference TAR/BSN/03-24/24279), Figure 2 (reference TAR/BSN/03-24/24280) and Figure 3 (reference TAR/BSN/03-24/24281revA)

Note:
In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue	
Environmental setting including: • geology • hydrogeology • surface waters	**Geology:** The geology of site is taken from the British Geological Survey (BGS) 1:50,000 scale Sheet 152 Shrewsbury solid edition, the online Geology of Britain map and the Envirocheck report reference 340889871_1_1. The superficial deposits at the site are recorded as Devensian Till (diamicton). A diamicton comprises a heterogeneous mixture of clay, sand, gravel and boulders. With the exception of the north western edge of the site the superficial deposits are underlain by the Carboniferous age Salop Formation which is recorded as red and red brown mudstone and red brown sandstone containing beds of pebbly sandstone and conglomerate itself containing Carboniferous age limestone and chert clast and thin limestone beds and caliche (calcrete) in the lower part of the unit. The north western edge of the site is underlain by the Pre-Cambrian age Portway Formation

	which is recorded as comprising interbedded sandstones and siltstones and underlies unconformably the Salop Formation. **Hydrogeology:** The superficial Devensian Till deposits are classified as a Secondary (Undifferentiated) Aquifer. Secondary (Undifferentiated) aquifers are defined by the Environment Agency (EA) as aquifers where there is insufficient information to classify as Secondary A or B. The Salop Formation is classified as a Secondary A aquifer which is defined by the EA as permeable layers capable of supporting water supplies at a local rather than a strategic scale. The Portway Formation is classified as a Secondary B aquifer which is defined by the EA as lower permeability layers that may store and yield limited amounts of groundwater through characteristics like thin cracks (called fissures) and openings or eroded layers. Based on information presented on the Multi-Agency Geographic Information for the Countryside (MAGIC) website, Bayston Hill Quarry site is not located in a groundwater Source Protection Zone (SPZ). **Hydrology:** The site is in the catchment of the River Trent. The land at the site falls generally towards the south east towards a series of drainage ditches the closest of which is approximately 140m east of the site at its closest point which in turn flow generally towards the east and discharges to the River Trent approximately 3.7km south east of the site. An unnamed watercourse is located approximately 900m north west of the site at its closest point which flows generally from south to north towards the Rea Brook which is located approximately 1.2km north of the site which in turn flows generally from south west to north east. The Cound Brook is located approximately 2.4km south east of the site at its closet point and flows generally from west to east. There are a number of unnamed surface water bodies located in the Bayston Hill Quarry which are used within the site. Bomere Wood is located approximately 1.5km south of the site which is bounded to the south by three named surface water bodies comprising Bomere Pool, Shomere Pool and Belton Pool and a number of unnamed surface water bodies. Based on the Environmental Agency Flood Map for Planning the site is located entirely in Flood Zone 1. Flood Zone 1 is defined by the EA as land assessed as having a less than 1 in 1000 annual probability of river or sea flooding (<0.1%).

Pollution history including: • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures	Information in respect of the potential pollution history at the site has been assessed from information in the Envirocheck report reference 340889871_1_1 including historical maps. The report is included as Appendix A. Based on the earliest available historical Ordnance Survey (OS) map from 1882 the site area was an undeveloped field, with the Sutton Plantation to the north east of the site. Based on the historical maps, the site area remains undeveloped land from the earliest available map to 1993-194 when a Stone Quarry is identified to the north of the site. Based on the 1:10,000 historical maps from the Envirocheck Report a Quarry is identified to the south west of the site from 1884-1888 onwards. Later maps show the quarry expanding in a north easterly direction towards the site proposed for the waste activity. Later maps identify the quarry as, a Stone Quarry.
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)	Based on the information in the Envirocheck report there are no Contaminated Land Register Entries and Notices within 1km of the site. Based on the Envirocheck report there are 4 pollution incidents to controlled waters within 1km of the site. The closest reported occurred 773m to the west of the site. It is reported as a 'Category 3 – Minor Incident' and relates to a JCB fire in September 1998 and notes 40 gallons of hydraulic fluid spilt. The other 3 incidents, all of which occurred in the 1990s, were recorded as 'Category 3 – Minor Incident' and were located 933m, 963m and 983m to the north east, west and north of the site respectively. Based on the information in the Envirocheck report, there are no recorded incidents on the Substantiated Pollution Incidents Register. Based on the Envirocheck report, there is one historical landfill site located within 1km of the site. The historic landfill, for which the licence holder was John Jones Limited, is located 409m to the north east of the site. The specified waste type is reported as 'deposited waste included inert waste' and deposits are recorded between 31 August 1991 and 1 March 1993. Based on the Envirocheck report there is one licensed waste management facility within 1km of the site comprising an inert and excavation WTS with treatment operated by Tarmac Trading Limited 770m to the south west of the site.

	There is one registered landfill site within 1km of the site, which is located 626m north east of the site based on the information in the Envirocheck report. It is reported as a landfill that is authorised to accept hardcore, stone, soil and subsoils from bypass works. Based on the Envirocheck report the status of the landfill site is Licence lapsed/ cancelled/ defunct/ not applicable/ surrendered/ cancelled.
Baseline soil and groundwater reference data	No baseline soil or groundwater reference data or records are available.
Supporting information	• Envirocheck Report number 340889871_1_1 dated 27 March 2024 • Historical Maps provided with the Envirocheck Report

3.0 Permitted activities

Permitted activities	**Bespoke Permit Application** Inert and excavation waste transfer station and treatment facility **D15:** Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced) **R13:** Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) **D14:** Repackaging prior to submission to any of the operations numbered D1 to 13 **D9:** Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12 **R3:** Recycling/reclamation of organic substances which are not used as solvents **R5:** Recycling/reclamation of other inorganic materials
Non-permitted activities undertaken	There are no non-permitted activities undertaken.
Document references for: • plan showing activity layout; and • environmental risk assessment.	Figure DEMP 1 (TAR/BSN/05-24/24366) Environmental Risk Assessment TAR/BSN/LJB/5759/01/ERA dated July 2024

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

4.0 Changes to the activity	
Have there been any changes to the activity boundary?	If yes, provide a plan showing the changes to the activity boundary.
Have there been any changes to the permitted activities?	If yes, provide a description of the changes to the permitted activities
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	If yes, list of them
Checklist of supporting information	• Plan showing any changes to the boundary (where relevant) • Description of the changes to the permitted activities (where relevant) • List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)

5.0 Measures taken to protect land	
Use records that you collected during the life of the permit to summarise whether pollution prevention measures worked. If you can't, you need to collect land and/or groundwater data to assess whether the land has deteriorated.	
Checklist of supporting information	• Inspection records and summary of findings of inspections for all pollution prevention measures • Records of maintenance, repair and replacement of pollution prevention measures

6.0 Pollution incidents that may have had an impact on land, and their remediation	
Summarise any pollution incidents that may have damaged the land. Describe how you investigated and remedied each one. If you can't, you need to collect land and /or groundwater reference data to assess whether the land has deteriorated while you've been there.	
Checklist of supporting information	• Records of pollution incidents that may have impacted on land • Records of their investigation and remediation

7.0 Soil gas and water quality monitoring (where undertaken)	
Provide details of any soil gas and/or water monitoring you did. Include a summary of the findings. Say whether it shows that the land deteriorated as a result of the permitted activities. If it did, outline how you investigated and remedied this.	
Checklist of supporting information	• **Description of soil gas and/or water monitoring undertaken** • **Monitoring results (including graphs)**

8.0 Decommissioning and removal of pollution risk

Describe how the site was decommissioned. Demonstrate that all sources of pollution risk have been removed. Describe whether the decommissioning had any impact on the land. Outline how you investigated and remedied this.

Checklist of supporting information	• **Site closure plan** • **List of potential sources of pollution risk** • **Investigation and remediation reports (where relevant)**

9.0 Reference data and remediation (where relevant)

Say whether you had to collect land and/or groundwater data. Or say that you didn't need to because the information from sections 3, 4, 5 and 6 of the Surrender Site Condition Report shows that the land has not deteriorated.

If you did collect land and/or groundwater reference data, summarise what this entailed, and what your data found. Say whether the data shows that the condition of the land has deteriorated, or whether the land at the site is in a "satisfactory state". If it isn't, summarise what you did to remedy this. Confirm that the land is now in a "satisfactory state" at surrender.

Checklist of supporting information	• Land and/or groundwater data collected at application (if collected) • Land and/or groundwater data collected at surrender (where needed) • Assessment of satisfactory state • Remediation and verification reports (where undertaken)

10.0 Statement of site condition

Using the information from sections 3 to 7, give a statement about the condition of the land at the site. This should confirm that:

- the permitted activities have stopped
- decommissioning is complete, and the pollution risk has been removed
- the land is in a satisfactory condition.

APPENDIX E

ENVIRONMENTAL RISK ASSESSMENT

AN APPLICATION FOR A BESPOKE ENVIRONMENTAL PERMIT FOR AN INERT AND EXCAVATION WASTE TREATMENT FACILITY TO BE OPERATED BY TARMAC AT BAYSTON HILL QUARRY, SHARPSTONE LANE, SHREWSBURY, SY3 0AW

NUISANCE AND AMENITY ENVIRONMENTAL RISK ASSESSMENT (ERA)

Report reference: TAR/BSN/LJB/5759/01/ERA
July 2024

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1. Introduction

1.1 MJCA is commissioned by Tarmac Trading Limited (Tarmac) to prepare an application for a bespoke Environmental Permit for an inert and excavation waste treatment facility to be operated by Tarmac at Bayston Hill Quarry, Sharpstone Lane, Shrewsbury, SY3 0AW (the site). The site is centred approximately at National Grid Reference (NGR) SJ 50136 09540 and covers an area measuring approximately 1.8 hectares. The location of the site and the Environmental Permit boundary are shown on Figure ERA1. The waste treatment facility will be located in the north west corner of the wider Baston Hill Quarry which covers an area of approximately 65 hectares. This document comprises a nuisance and amenity environmental risk assessment (ERA) prepared to support the application based on the risk screening matrix provided in Table ERA 1 and the assessment presented in Table ERA 2.

1.2 The ERA considers potential receptors and pathways for impacts based on the understanding of the environment surrounding the site that is presented in the Site Condition Report (SCR) and Dust and Emissions Management Plan (DEMP) report presented at Appendix D and Appendix F respectively to the application report and Figure ERA 1, and the maps included in the Envirocheck report provided at Annex A to the SCR report. The assessment of the risks associated with the treatment of waste at the site is based on the general principles in the Environment Agency guidance “Risk assessments for your environmental permit” published on the GOV.UK website on 1 February 2016, last updated 21 November 2023.

1.3 The identification of potential receptors has been informed by information presented on the Defra MAGIC website, the pre-application Nature and Heritage Conservation Screening Report received from the Environment Agency (EA), the DEMP and the SCR. This risk assessment takes into consideration receptors within 500m of the site with the exception of statutorily designated nature conservation sites for which the relevant distance is up to 2km.

1.4 Based on the screening results from the pre-application Nature and Heritage Conservation Screening Report there is the potential for Great Crested Newts (GCNs) to be present within 250m of the proposed site. A copy of the pre-application Nature and Heritage Conservation Screening Report is presented at Appendix A of the permit application.

1.5 Based on information from the Defra MAGIC website there are no National Parks, Areas of Outstanding Natural Beauty, Marine Conservation Zones, Special Protection Areas (SPAs), Special Areas of Conservation (SACs) or National Nature Reserves (NNRs) located within 2km of the site. There is one Site of Special Scientific Interest (SSSI) and one Ramsar site within 2km of the site boundary. As shown on Figure ERA 1, Bomere, Shomere and Betton Pools SSSI and Midland Meres & Mosses – Phase 1 Ramsar site are located just over 1km south of the site boundary. The areas covered by the SSSI and the Ramsar site overlap. As shown on Figure ERA 1, parts of the Rea Brook Valley Local Nature Reserve (LNR) are located to the north and north west of the site approximately 1km away from the site.

1.6 There are no World Heritage Sites, Scheduled Monuments or Listed Buildings within 500m of the site. As shown on Figure ERA 1, Betton Alkmere Grade II listed building is the closest listed building to the site, located approximately 560m to the southeast of the site and '*Moated site, fishponds, and ridge and furrow cultivation remains, 260m southwest of Betton Alkmere*' Scheduled Monument is the closest Scheduled Monument to the site, located approximately 510m south east of the site.

1.7 Based on information from the Defra MAGIC website there are no areas of Ancient Woodland within 1km of the site and there is an area of Deciduous Woodland Priority habitat approximately 150m north east of the site.

1.8 Based on information from the Defra MAGIC website the site is not located in a groundwater Source Protection Zone (SPZ).

1.9 Based on information viewed on the Defra UK Air Information Resource website, the site is not located in an Air Quality Management Area (AQMA).

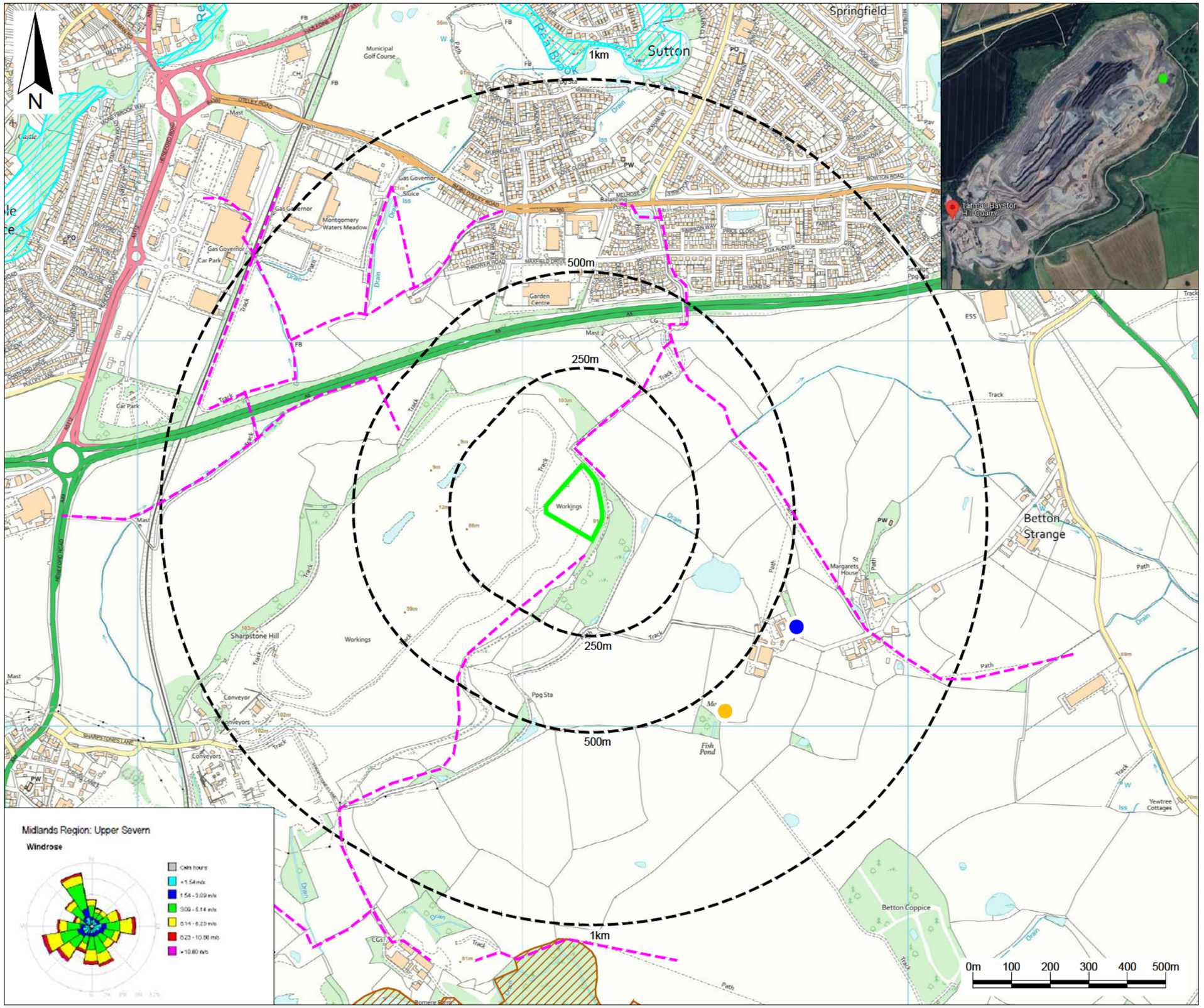
1.10 There are no residential receptors within 250m of the site. As shown on Figure ERA 1, a housing estate is located to the north of the site on the opposite side of the A5, just under 500m away from the site.

1.11 The wind rose from the Environment Agency Midlands Region Upper Severn shown on Figure ERA 1 shows that the prevailing wind direction is from the WSW with components from the NNW and east. There are no residential receptors within 500m downwind of the site.

1.12 The nuisance and amenity environmental risk assessment risk screening matrix is presented in Table ERA 1 and the risk assessment is presented in Table ERA 2.

2. Conclusions

2.1 The ERA presented in Table ERA 2 that has been completed to support the application demonstrates that the operation of the facility has a low or very low risk of adverse impact on the surrounding environment including sites of heritage or nature conservation interest.



Key / Notes

- Environmental Permit boundary
- Offset from the Environmental Permit boundary
- Public rights of way
- Approximate location of Site of Special Scientific Interest (SSSI) - Bomere, Shomere and Betton Pools and Midland Meres & Mosses – Phase 1 Ramsar site
- Approximate location of Local Nature Reserve
- Approximate location of Grade II Listed building - Betton Alkmere
- Approximate location of Scheduled Monument - Moated site, fishponds, and ridge and furrow cultivation remains, 260m southwest of Betton Alkmere

Rev	Status	Drn	App	Chk	Date
	Final	KR	LJB	AW	12/07/24

Site: BAYSTON HILL QUARRY

Client: TARMAC A CRH COMPANY

Title: The site setting

Figure ERA 1 | Scale: 1:10,000@A3

Drawing Ref: TAR/BSN/05-24/24386

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TABLES

Table ERA 1 Risk screening matrix (waste treatment activity)

RISK TYPE	ODOUR		NOISE AND VIBRATION		FUGITIVE EMISSIONS								
					PARTICULATE MATTER				LITTER		BIRDS, VERMIN AND INSECTS		MUD ON THE ROAD
GENERIC HAZARDS / GENERIC RECEPTORS[1]	Waste storage and handling	Waste delivery	Waste delivery	Waste storage and handling	Waste delivery	Waste storage and handling	Restored surfaces	Access routes	Waste delivery	Waste storage and handling	Waste delivery	Waste deposition	Vehicle Movements
DOMESTIC DWELLING	x	x	x	x	x	x	x	x					
SCHOOLS AND COLLEGES													
HOSPITALS													
OFFICES/COMMERCIALPREMISES	x	x	x	x	x	x	x	x					
INDUSTRIAL PREMISES	x	x	x	x	x	x	x	x					
PUBLIC FOOTPATH OR BRIDLEWAY	x	x	x	x	x	x	x	x					
HIGHWAYS OR ROADS					x	x	x	x					x
PARKS AND PUBLIC OPEN SPACES	x	x	x	x	x	x	x	x					
FARMLAND WITH LIVESTOCK			x	x	x	x	x	x					
FARMLAND ARABLE					x	x	x	x					
PRIORITY HABITAT					x	x	x	x					
NATURE SITE OF LOCAL IMPORTANCE (e.g. LNR, CWS)					x	x	x	x					

RISK TYPE	ODOUR		NOISE AND VIBRATION		FUGITIVE EMISSIONS								
					PARTICULATE MATTER				LITTER		BIRDS, VERMIN AND INSECTS		MUD ON THE ROAD
GENERIC HAZARDS / GENERIC RECEPTORS[1]	Waste storage and handling	Waste delivery	Waste delivery	Waste storage and handling	Waste delivery	Waste storage and handling	Restored surfaces	Access routes	Waste delivery	Waste storage and handling	Waste delivery	Waste deposition	Vehicle Movements
SITE OF SPECIAL SCIENTIFIC INTEREST (within 2km)					x	x	x	x					
SPECIAL AREA OF CONSERVATION (within 2km)													
Ramsar Sites (within 2km)					x	x	x	x					
SPECIAL PROTECTION AREA (within 2km)													
LISTED BUILDINGS (within 500m)													
SCHEDULED MONUMENT (within 500m)													
AIRPORT													
RAILWAY													
SURFACE WATER					x	x	x	x					

x = generic receptor type present and generic hazard considered as part of this assessment set out in Table ERA 2

[1] All generic receptors within 500m have been identified unless an alternative distance has been identified.

Table ERA 2 – Assessment of nuisance and amenity risks associated with the treatment of waste at Bayston Hill Quarry

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
Odour							
There are no potential sources of odour at the site.	Local human population	Air transport then inhalation	Very Low	Nuisance, loss of amenity	Very Low	The only waste accepted will be road planings under waste code 17 03 02. Odour is not associated with this waste type. Waste acceptance procedures will be in place.	Negligible
Noise							
Crushing, screening, mobile plant and vehicles	Local human population	Air	Low	Nuisance from noise	Low	There are no residential receptors within 250m of the site. The closest residential receptors are located in the housing estate to the north west of the site just under 500m away from the site. The A5 dual carriageway is located between the site and the housing estate. The following noise and vibration control measures will be implemented at the site to minimise any potential noise and vibration impacts: • Consistent with the planning permission for the site, waste activities will not be undertaken outside of daytime hours. • Plant and machinery are regularly well maintained, serviced in accordance with	Low

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
						manufacturers' instructions and where appropriate fitted with exhaust silencers. • The site surfacing is maintained to minimise the potential for defects such as pot-holes • Unnecessary horn usage and revving of engines is avoided • Equipment is switched off or throttled-down when not required • Drop heights of materials are minimised where possible • Plant and vehicles are started up sequentially rather than all together. Although it is considered unlikely that the limited activities will have a significant environmental impact in respect of noise, the potential impacts of noise from the development will be assessed in a Noise Impact Assessment (NIA). Based on operational changes currently ongoing in the wider Bayston Hill Quarry, at the time of preparation of this application in June 2024 it was not considered to be the most suitable time to record baseline noise conditions at the site to support the NIA. A baseline noise survey has been programmed for autumn 2024 and the NIA will be prepared shortly after this and provided to the Environment Agency to confirm the conclusions of this qualitative risk assessment.	

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
Vibration							
Crushing, screening, mobile plant and vehicles	Local human population	Ground	Very Low	Nuisance from vibration	Very Low	Based on the location of the waste activities approximately 500m away from the closest receptors and the location of the receptors on the other side of the A5 dual carriageway, it is considered that the potential for the waste activities to have a significant impact in respect of vibration is negligible. The control measures in respect of noise described above will also minimise the potential for vibration.	Negligible
Fugitive emissions							
Particulates from access routes, waste delivery, waste storage and waste treatment	Local human population / properties / farmland arable / public highway / water bodies / sensitive habitat	Air	Low	Deposition of particulate matter	Medium to low	The only waste accepted will be road planings under waste code 17 03 02. Dust, loose fibres or significant amounts of particulate matter is not associated with this waste type. A Dust and Particulate Matter Emissions Management Plan (DEMP) has been prepared to support the operation of the site. The DEMP describes the operations at the site which may have the potential to have an impact on air quality as a result of emissions of particulate matter, describes the operational controls which will be implemented to minimise emissions and describes the monitoring which will be carried out to confirm the effectiveness of the management controls.	Low

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
The wastes that will be accepted have a very low potential to generate litter or to attract birds, vermin or insects.	Local human population / properties / farmland arable / public highway / water bodies / sensitive habitat	Air	Negligible	Nuisance associated with litter	Negligible	Acceptance procedures will be in place. The road planings waste type to be accepted at the site has a very low potential to generate litter, attract scavenging animals and scavenging birds or insects.	Negligible
Mud and debris deposited on the public highway	Public highway	Vehicle movements	Low	Mud on the public highway	Low	Wheel cleaning facilities already are provided in the main quarry. Vehicles associated with waste operations will use the wheelwash facilities when travelling from the site to the public highway. All site roads will be inspected daily and maintained in a condition consistent with minimising the risk of the accumulation of mud and debris on the highway. A mobile road sweeper will be used as necessary. Further information is provided in the DEMP presented with this permit application report.	Low
Contamination from wastes accepted	Groundwater/ surface water	Infiltration/ run-off	Low	Contamination of groundwater/ surface water	Low	The site is not located in a groundwater SPZ. The only waste type to be accepted at the site comprises road planings (17 03 02) which has a low potential to leach contaminants. This is confirmed by the generic risk assessment for SR2009No6, which includes waste type 17 03 02, which confirms that the waste types are inert and are unlikely to contaminate groundwater. SR2009No6 does not require waste types (including 17 03 02) to be	Low

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
						stored on an impermeable surface with a sealed drainage system.	
Accidents							
Waste stored and treated on site	Local human population gaining unauthorised access to the waste operation	Direct physical contact	Low	Bodily injury	Low	The waste type that will be accepted at the site should not cause harm to human health by virtue of its composition. Security measures which are implemented currently in respect of the existing mineral extraction operations comprising the use of fencing, safety signs and regular inspections will continue to be implemented to minimise the potential for unauthorised entry to the site. The main quarry gates are locked outside normal working hours.	Very low
Vehicle movements on site	Local human population gaining unauthorised access to the site	Direct physical contact	Low	Bodily injury	Medium	Security measures are implemented currently in respect of the existing mineral extraction operations and will continue to be implemented to minimise the potential for unauthorised entry to the site. Vehicles will employ suitable non-tonal reversing alarms.	Low
Accidental release of fuel	Water resources	Infiltration to ground	Low	Contamination of water resources	Medium	Company operational, maintenance, inspection and accident management procedures are in place and will be implemented. Spillage kits are available and site personnel are trained in their use.	Low

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
Flooding	The generic receptors identified in Table ERA 1	Flood waters	Low	Flooding associated with the generic receptors identified in Table ERA 1	Low	Based on the Environmental Agency Flood Map for Planning the site is located within Flood Zone 1 which is land that has a low probability of flooding with less than 1 in 1,000 annual probability of river or sea flooding. The site is within an area with a very low risk of flooding from surface water. Based on the information provided in the Envirocheck report appended to the Site Condition Report the site is located within an area with limited potential for groundwater flooding to occur at the surface.	Low
Fire	Atmospheric emissions	Air	Very low	Nuisance from smoke and odour Contamination of water resources	Very low	As the waste accepted at the site will be non-flammable and non-combustible the risk of occurrence of fires is negligible. As a result associated risks from fire-fighting water being discharged to controlled waters are negligible.	Negligible
Waste operations may cause harm to and deterioration of nature conservation sites.	Protected sites - European sites and SSSIs	Air or run off	Very Low	Harm to protected site through contamination, nutrient enrichment, smothering, disturbance, predation etc.	Very Low	Measures are in place to minimise the risk of unacceptable impacts from the waste operations on the surrounding environment which will be protective also of SSSIs and Ramsar sites There are no SSSI's or Ramsar sites within 1km of the site. It is considered that the potential hazards from the permitted activities pose a negligible risk to the SSSI and Ramsar sites.	Negligible

What do you do that can harm and what could be harmed?			Assessing the risk			Managing the risk	
Hazard	Receptor (see Table ESSD 2)	Pathway	Probability of exposure	Consequence	What is the overall risk?	Risk management	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor?	How likely is this contact?	What is the harm that can be caused?	What is the risk? The balance of probability and consequence	What measures will you take to reduce the risk? If it occurs – who is responsible for what?	What is the risk that still remains?
Waste operations may cause harm to and deterioration of nature conservation sites.	Wildlife sites of regional or local importance and protected habitat Rea Brook Valley LNR, GCNs and deciduous Woodland Priority habitat	Air or run off	Very Low	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Very Low	Measures are in place to minimise the risk of unacceptable impacts from the waste operations on the surrounding environment which will be protective also of local nature reserves and protected/priority habitats. It is considered that the potential hazards from the permitted activities pose a negligible risk to the local nature reserves and protected/priority habitats.	Negligible
Waste operations may cause harm to and deterioration of heritage conservation sites.	Designated heritage sites – Scheduled Monuments and Listed Buildings	Direct physical contact	Negligible	Deterioration of designated heritage sites	Negligible	There are no relevant heritage conservation sites within 500m of the site.	Negligible

APPENDIX F

DUST AND EMISSIONS MANAGEMENT PLAN

AN APPLICATION FOR A BESPOKE ENVIRONMENTAL PERMIT FOR AN INERT AND EXCAVATION WASTE TREATMENT FACILITY TO BE OPERATED BY TARMAC AT BAYSTON HILL QUARRY, SHARPSTONE LANE, SHREWSBURY, SY3 0AW

DUST AND EMISSIONS MANAGEMENT PLAN

Report reference: TAR/BSN/LJB/5759/01/DEMP
June 2024

Baddesley Colliery Offices, Main Road, Baxterley, Atherstone, Warwickshire, CV9 2LE
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APPENDICES

1. Introduction

1.1 MJCA is commissioned by Tarmac Trading Limited (Tarmac) to prepare an application for a bespoke Environmental Permit for an inert and excavation waste treatment facility to be operated by Tarmac at Bayston Hill Quarry, Sharpstone Lane, Shrewsbury, SY3 0AW (the site[1]). The site is centred approximately at National Grid Reference (NGR) SJ 50136 09540 and covers an area measuring approximately 1.8 hectares. The location of the site and the Environmental Permit boundary are shown on Figure DEMP 1. The waste treatment facility will be located in the north west corner of the wider Baston Hill Quarry which covers an area of approximately 65 hectares. This document comprises a Dust and Emissions Management Plan (DEMP) prepared to support the application for the proposed waste treatment facility. This DEMP is relevant only to the waste treatment facility and is not relevant to the operations at the wider Tarmac site at Bayton Hill Quarry.

1.2 This DEMP has been prepared based on Environment Agency (EA) guidance "Control and monitor emissions for your environmental permit"[2] with reference to the section of the guidance entitled "What to include in your dust management plan" and with reference to the relevant aspects of EA guidance 'Non-hazardous and inert waste: appropriate measures for permitted facilities[3]' (the Appropriate Measures guidance). Section 1 of the Appropriate Measures guidance explains when appropriate measures apply and how these should be applied on a site specific basis. In Section 1.2 of the Appropriate Measures guidance, it is stated:

> *"Some measures in this guidance may not be suitable or relevant for your operation. Appropriate measures will depend on the:*
>
> - *activities being carried out*
> - *size and nature of the activities*
> - *location of the facility"*

[1] References in this DEMP to the site refer to the waste treatment facility shown outlined in green on Figure ERA 1.

[2] https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit. Last Updated 24 November 2022.

[3] https://www.gov.uk/guidance/non-hazardous-and-inert-waste-appropriate-measures-for-permitted-facilities. Last updated 1 August 2023.

1.3 Amongst other issues, it is necessary to consider the size and nature and location of the activities which it is proposed are carried out when assessing the risks from the activities which are a key factor in informing the appropriate measures to effectively control the potential emissions from the site. In particular it is necessary to consider the location of the proposed facility which is within the wider Bayston Hill Quarry site which is an operational quarry operated also by Tarmac including mineral extraction and processing activities. The aerial photograph included on Figure DEMP 1 provides visual context for the site. As shown on Figure DEMP 1, the facility the subject of this permit application is in the northeast corner of the wider Bayston Hill Quarry. There are no residential receptors located within 500m of the downwind boundary of the proposed facility. The site is not located within an AQMA (Air Quality Management Area) declared for particulate matter.

1.4 This document presents the management techniques that are used at the site to minimise the potential for particulate matter emissions from the site, the monitoring proposed to confirm the effectiveness of the management techniques and an action plan which will be implemented in the unlikely event that there is a significant emission of particulate matter from the site.

1.5 An assessment of the likelihood of particulate matter nuisance associated with the operation of the site is presented in the nuisance and amenity Environmental Risk Assessment (ERA) which is presented at Appendix E to the Environmental Permit application. In the ERA it is concluded that the residual risk in respect of fugitive emissions of particulate matter is '*low*'.

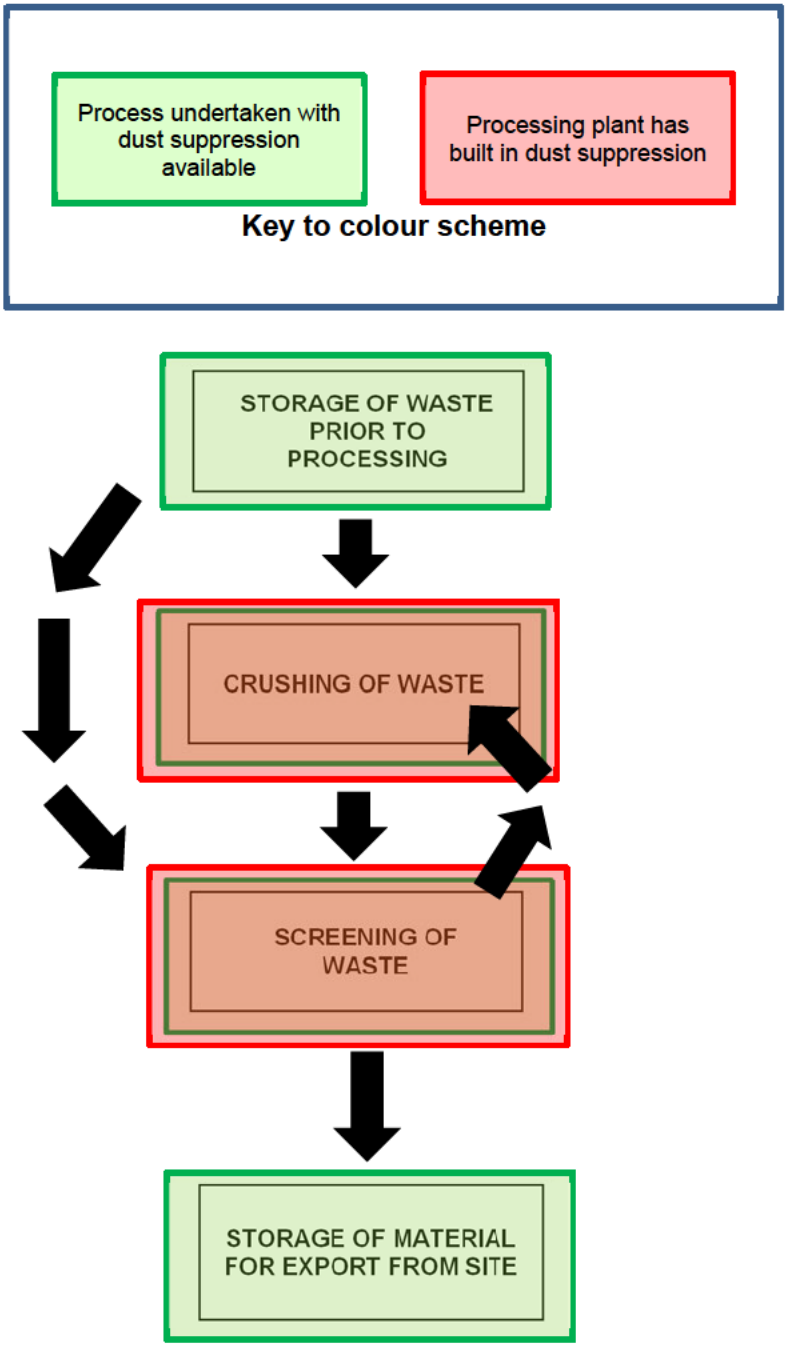
1.6 The management and monitoring proposals in this document are based on a review of the ERA. The DEMP is reviewed annually as part of the management review. The review includes consideration of the results of particulate matter monitoring and progress with any improvements identified as necessary. A review of the effectiveness of dust monitoring techniques is undertaken and changes made to monitoring techniques as necessary.

2. Site details and description of site operations

2.1 Bayston Hill Quarry is located approximately 3km south of the centre of Shrewsbury to the north east of Bayston Hill as shown on Figure DEMP 1. The proposed waste treatment facility is located within the larger Bayston Hill Quarry and mineral processing area footprint and is centred approximately on National Grid Reference SJ 50136 09540 (the site). The surface of the site is hardstanding comprising crushed gravel. The main access to the site is through Sharpstone Lane, a private tarmac surfaced lane from the A5112 which runs in a generally south west to north east direction from approximately 1.5km east of the permit boundary. The internal quarry haul road which links the public highway to the entrance to the site is hardstanding comprising a crushed gravel surface.

Source

2.2 The layout of the proposed activities is shown in the inset on Figure DEMP 1 and the location of the proposed activities within the wider Bayston Hill Quarry is identified on Figure DEMP 1. A schematic diagram identifying the key activities to be undertaken is presented below. The schematic diagram should be read in conjunction with the site layout plan.


Process undertaken with dust suppression available
Processing plant has built in dust suppression
Key to colour scheme
STORAGE OF WASTE PRIOR TO PROCESSING
CRUSHING OF WASTE
SCREENING OF WASTE
STORAGE OF MATERIAL FOR EXPORT FROM SITE

2.3 As shown in the schematic diagram, waste imported to the site is subjected to a limited series of treatment activities comprising crushing and screening, both of which are undertaken with dust suppression available, either built into the treatment plant or via mobile suppression using a water bowser. Each of the steps in the process are described below giving consideration to the potential for the specific activity to generate or release particulate matter. Where specific activities have the potential to generate or release particulate matter, the proposed control measures are described and are summarised in Table DEMP 2 - Source - Pathway - Receptor linkages.

2.4 The proposed waste to be accepted at the site is limited to 17 03 02, bituminous mixtures other than those mentioned in 17 03 01. This waste type comprises returned asphalt and road planings which are generated from the removal of the top layer of bitumen based road surfaces. Dust, loose fibres or significant amounts of particulate matter is not generally associated with this waste type. The incoming waste will be stored in stockpiles on a hardstanding surface prior to processing EA guidance "Control and monitor emissions for your environmental permit" includes a section entitled "Stockpiled waste and open ground" which lists a range of other appropriate measures where waste stockpiles will be located outdoors. The other appropriate measures include:

- *"controlling the moisture content of the material in the stockpile to prevent materials becoming friable*
- *planting grass or trees on open ground to reduce dust (hydro-seeding can rapidly establish vegetation on waste tips, slag heaps or other apparently infertile ground)*
- *using sprays ….*
- *appropriately positioning windbreaks*
- *making sure stockpiles do not face the direction of the prevailing wind"*

2.5 As shown on the inset to Figure DEMP 1, the wind rose shows that the prevailing wind direction is from the WSW with components from the NNW and east. A mobile water bowser is available to provide dust suppression sprays to control the moisture content of the material in the stockpiles to prevent materials becoming friable, albeit that (unlike soil for example) asphalt and road planings generally do not become friable in dry conditions. Based on the site setting (situated within an operational

quarry, the type of accepted waste being limited to 17 03 02, the site not being located in an AQMA and no residential receptors within 500m downwind of the site) it is considered unnecessary to store material in the site in bays and if bays are installed it is considered unnecessary to limit stockpile heights to 0.5m below the top of the bay. For these same reasons, there are no proposals to install perimeter fencing or perimeter netting at the boundary of the site.

2.6 The first stage of the process will be to crush the waste. Crushing will be undertaken at the site on a campaign basis when a sufficient quantity of material is present for the crushing plant to be deployed. It is likely that the crushing campaigns will be undertaken at the site two or three times per year and the quantity of material crushed during each campaign will be approximately 7,000 to 10,000 tonnes. Crushing of waste is the activity with the greatest risk of generating and releasing particulate matter at the site, however as the waste being accepted at the site will only comprise of bitumen bound planings and asphalt it is considered unlikely that a significant amount of particulate matter will be generated through the crushing process. However, a combination of control measures will be applied to this activity including:

- Limiting the time period during which the crusher is employed at the site (ie crushing on a campaign basis rather than on a routine/daily basis).
- Having regard to the weather conditions when planning crushing campaigns, including avoiding crushing during weather conditions that may preclude the effective management of particulate matter.
- Enclosure of the conveyors associated with the crusher.
- Provision of dust suppression spray bars built into the crusher.
- The use of a water bowser to provide mobile dust suppression, particularly for the output from the crusher

2.7 The output from the crusher will either be deposited in the processed material storage area or will be transferred to the screening plant for particle size separation depending on which grade of material is required. The controls in respect of the screening process will consist of a mobile water bowser readily available to provide dust suppression at the entry and exit points from the screening plant in the unlikely event that there is a potential for release of particulate matter during the process. Additional controls consist of dust suppression spray bars built into the screener and enclosure of the conveyors associated with the screener.

2.8 The output material produced from the processed waste will be exported from the permitted site for recovery at a suitably authorised facility (for example a roadstone coating plant).

2.9 A mobile water bowser will be available to provide dust suppression for materials stored in the processed material storage area.

2.10 In addition to the processing activities described above, the activities with the potential to generate and/or release particulate matter include the movement of particulate matter on vehicle bodies and the resuspension of particulate matter on haul roads and the site surface by vehicles.

Pathway

2.11 Particulate matter is dispersed from the source to potential receptors by the wind. The location of sources of particulate matter are within the permit boundary. Based on the prevailing wind direction which is from the WSW with components from the NNW and east, as shown on the wind rose from Midlands Region Upper Severn on Figure DEMP 1, areas to the ENE, SSE and west of the site are down prevailing wind of the site.

Receptors

2.12 The site and surrounding area are shown on Figure DEMP 1. The proposed waste treatment facility is located within Bayston Hill Quarry and mineral processing area. There are no residential receptors within 250m of the site. As shown on Figure DEMP 1, a housing estate is located to the north of the site on the opposite side of the A5, just under 500m away from the site. Figure ERA 1 shows buildings located approximately 325m north east of the site boundary to the south of the A5. It is understood that the buildings at this location are unoccupied and are due to be demolished. A Garden Centre is located approximately 500m north of the permit boundary on the opposite side of the A5. Properties associated with the Grade II listed building Betton Alkmere are located approximately 500m south east of the site boundary as shown on Figure DEMP1. There are no residential dwellings within 500m down prevailing wind direction of the permit boundary.

2.13 There are several public rights of way within 1km of the site boundary. The closest footpath to the site is Route Code 0443/84/1 Footpath which runs along the southern

boundary of the site and connects with Route Code 0406/51/2 and 0406/29A/1 approximately 500m south of the site. There are other public rights of way within 1km of the site adjacent to the perimeter of the wider Bayston Hill Quarry.

2.14 Air Quality Management Areas (AQMAs) are declared by Shropshire Council for nitrogen dioxide according to DEFRA[4]. The nearest AQMA is an area in the centre of Shrewsbury approximately 3km from the site, based on nitrogen dioxide derived from traffic emissions. The site is not located within an AQMA and there are no declared AQMAs in the Shropshire Council area for particulate matter.

4 https://uk-air.defra.gov.uk/aqma/local-authorities?la_id=184

3. Particulate matter management techniques

3.1 The control of particulate matter at the site is achieved by a combination of controls on waste delivery and receipt at the site and operational techniques employed at the site. The techniques selected for use at the site are based on well-established techniques to control the emissions of particulate matter across the wider site under the current planning permission. Collectively the techniques amount to good housekeeping. Reference has been made where relevant to the Environment Agency Technical Guidance Document (Monitoring) M17[5] entitled 'Monitoring of particulate matter in ambient air around waste facilities' (M17) and appropriate measures for control of dust and mud presented in Environment Agency guidance "Control and monitor emissions for your environmental permit". A variety of techniques are used at the site based on site specific circumstances. The techniques are described below and earlier in Section 2.

Responsibility for implementation of this plan

3.2 The site manager shall be responsible for the management of particulate matter and site staff are trained appropriately with support from the Technically Competent Manager (TCM). The training includes refresher training however during the course of routine operation of the site the experience of the site staff, including the site manager, comprises on-the-job training which complements the refresher training. It is the responsibility of the site manager to ensure that the DEMP is being followed and to ensure that appropriate training is given.

Operational controls

3.3 For all anticipated deliveries of waste to the site, transporters are instructed to cover the loads with a sheet or otherwise contain their loads (for example in an enclosed vehicle) during transport to the site to minimise the risk of particulate emissions. Incoming loads remain sheeted or contained until such time as they are inspected and/or discharged. Following completion of the visual waste acceptance checks,

5 https://www.gov.uk/government/publications/m17-monitoring-of-particulate-matter-in-ambient-air-around-waste-facilities Published 7 April 2014

drivers delivering waste to the site are instructed to place waste in the reception area of the site.

3.4 Waste received at the site is subject to pre-acceptance checks and acceptance screening comprising, where appropriate, visual inspection to confirm that the load is consistent with the waste types permitted for acceptance at the site. In the event that unsuitable materials are delivered to the site, including wastes comprising solely or mainly dusts, powders or loose fibres, the load is rejected.

3.5 In order to minimise the deposition of mud that may subsequently dry and generate particulate matter if disturbed, such as when tracked over by vehicles, all vehicles delivering waste to the site use the automated wheel cleaning facilities at the main mineral processing area as necessary before leaving the site. Vehicles will be instructed to use the automated wheel wash facility as they exit the site prior to returning to the local road network; high-pressure hoses will be applied to vehicles that require extra cleaning to ensure vehicles are free of significant debris. The sensors on the wheel wash automatically turn on upon approach by a vehicle. The wheel cleaning facilities are maintained in full working order throughout the life of the site. The site access road and the immediate external public highway (Sharpstones Lane) are swept with a road sweeper.

3.6 The movement of site traffic is restricted to defined traffic routes which are maintained. Vehicle speed limits of 15mph are imposed on the site and on the adjacent access route for safety reasons and to reduce the potential for significant particulate matter to be resuspended. Insofar as it is practicable all site vehicle exhausts are upward pointing to prevent the disturbance of particulate matter from the road and site surfaces. The crushing and screening equipment used at the site are maintained in accordance with the manufacturer's recommendations to optimise performance and minimise emissions. A no idling policy is implemented at the site for vehicles and plant.

3.7 During dry weather conditions mobile bowsers and dust suppression water spray systems are used to spray water onto the Quarry site traffic routes and the adjacent haul roads and access roads and as described in section 2 above, a water bowser will be employed on waste stockpiles and during waste treatment activities to minimise the potential for particulate matter to be generated and become airborne. The use of a water bowser is a proven effective dust management technique at

numerous other waste treatment facilities operated by Tarmac and within the wider Bayston Hill Quarry complex. Operations which may have the potential to generate particulate matter will cease if weather conditions and ground conditions preclude effective dust control. This decision will be made at the discretion of the TCM and / or site manager based on the site conditions (dry, damp, wet) giving consideration to the weather conditions (windy, calm, etc) and the type, quantity and particle size of the waste on site. Additional dampening of waste materials and / or stockpiles will be employed during high winds particularly when the prevailing wind direction is towards potentially sensitive receptors in the vicinity of the site.

3.8 In the event that particulate matter control measures fail to the extent that effective dust management cannot be provided then waste related operations at the site are suspended until such time as the control measures can be reinstated.

3.9 All relevant site personnel including contractors are trained in working practices and mitigation measures to minimise the generation and release of particulate matter.

3.10 Drop heights are minimised during the loading, unloading, processing and transferring of waste. Loads will remain sheeted prior to unloading. The mobile water bowser is available and employed to provide dust suppression to minimise the release of particulate matter during the unloading of waste at the site if unacceptable dust or particulate matter emissions occur or have a high likelihood of occurring due to unusually dry and/or windy weather conditions.

3.11 Visual monitoring for emissions of particulate matter is undertaken by site personnel. Further details are provided in Section 4 of this document.

Water availability/usage

3.12 Surface water is collected in surface water lagoons for re-use within the wider quarry site The water bowser is filled up using water from the lagoons to ensure that water is available for dust suppression at the waste treatment facility. The dust suppression built into the crushing and screening plant is topped up using the water transported by the water bowser. Given the abundance of water resources available within the wider quarry, the event of a water shortage during long periods of dry weather or drought conditions is extremely unlikely. Should such an exceptional situation occur, all operations with the potential to generate particulate matter (for example crushing

and screening of waste) will temporarily cease until such a time that adequate water supply can be restored.

Action Plan

3.13 A Particulate Matter Management and Monitoring Action Plan is presented in Section 6 of this document. The Particulate Matter Management and Monitoring Action Plan will be implemented in the event that:

i. there is an unacceptable visual emission of particulate matter from the site, or

ii. a complaint is received.

4. Particulate matter monitoring programme

4.1 In TGN M17 it is stated that despite the subjective nature of the visual assessment of dust emissions:

> *'this simple, cheap and easy to implement assessment approach has the significant advantage of providing instantaneous information on problems (e.g. it may be possible to directly observe the source of the dust emission, such as a particular stockpile) allowing rapid actions to be taken to deal with the problem.'*

4.2 During all site operations visual monitoring for emissions of particulate matter is undertaken by suitably trained site personnel. In addition to the continuous visual monitoring a specific routine monitoring schedule is undertaken comprising visual monitoring at 4 specific on-site locations at least once per day while the site is active. The on-site monitoring locations are shown on Figure DEMP 1. This is routinely carried out and the results of the monitoring are recorded on the visual monitoring checklist provided at Appendix A. Visual monitoring by suitably trained site personnel is the most effective method of detecting as quickly as possible emissions of particulate matter throughout the working day thereby facilitating promptly the assessment of such emissions allowing the selection and implementation as quickly as practicable of control measures as necessary. The effectiveness of the measures taken in controlling emissions are assessed during inspections undertaken at the site following implementation of the control measures. Any problem that is observed is reported to the site manager who is responsible for investigating the cause and implementing any necessary remedial action. The results of inspections and remedial measures taken are recorded in the site diary.

4.3 As part of the daily housekeeping practices, an initial and final site inspection is completed at the start and end of each working day to check that the site is in a condition that has a low potential to release dust including dust as a result of operations outside of normal operational hours. Publicly available weather forecasts are consulted by site staff to identify forecasts of extreme weather events or storms which may have the potential to increase the risk of the release of particulate matter from the site outside operational hours and additional control measures such as dampening of site surfacing and stockpiles prior to the end of the working day is implemented as necessary. The findings of the visual assessments are recorded in

the Site Inspection Checklist presented at Appendix B. Any problem that is observed is reported to the site manager who is responsible for investigating the cause and implementing any remedial action as necessary. Incidents and remedial measures taken are recorded in the site diary.

4.4 The site manager uses the Meteorological Office[6] weather forecast or other forecast to predict weather conditions such as prolonged dry spells which may give rise to particulate matter emissions and implements the appropriate precautionary and or management measures. Qualitative assessments of the on-site conditions are undertaken as necessary, and measures are taken to control aerial emissions of particulate matter within the site boundary.

4.5 The records of the visual particulate matter monitoring are reviewed periodically to facilitate the review and assessment of operational activities as necessary. The review is carried out in conjunction with a review of meteorological data that are available and the site operations that took place during the monitoring period together with any complaints regarding particulate matter emissions that have been received.

4.6 In the event that based on the visual site observations there is an unacceptable particulate matter emission from the site the Particulate Matter Management and Monitoring Action Plan is implemented. The Particulate Matter Management and Monitoring Action Plan is presented in Section 6.

4.7 As there are no sensitive receptors located within 500m down wind of the prevailing wind direction at the site and as the site is not located within an AQMA declared for particulate matter it is unnecessary to undertake quantitative dust monitoring at the site.

6 https://www.metoffice.gov.uk/

5. Engagement with the community

5.1 Tarmac are conscious of the potential impact on the environment of its activities and strive to manage and minimise those impacts. Tarmac recognises the importance of community engagement and strives to build a positive working relationship with local residents and businesses across all of its sites. Contact details for the site, including out of hours contact details, shall be displayed on the signage at the site entrance. Tarmac works closely with the local community including through liaison committee meetings with local residents.

Reporting of complaints and management responsibilities

5.2 Any complaints about the site operations and/or their impact on the environment made by third parties (including any complaints identified by the Environment Agency or Local Authority) are brought to the attention of the site manager in the first instance who will identify and implement the measures needed to resolve the matter as set out in Section 6 and the complaints procedure in accordance with the accredited ISO14001 management system. They shall then record the complaint and the actions taken to resolve it. A register of complaints is maintained on site in the site diary. Complaints are handled via the Organisation's electronic reporting system. Complaints are escalated to senior management, if necessary, based on the number and type of complaints. The need to escalate complaints is determined by the site manager. Should complaints be escalated the details are recorded in the site diary.

5.3 The Particulate Matter Management and Monitoring Action Plan which is implemented in the event that a complaint is received is presented in Section 6 of this document.

6. Particulate Matter Management and Monitoring Action Plan

Context

6.1 The overriding management principle of the site with respect to the control of particulate matter shall be to operate the site in a manner which prevents or minimises the release of dust as set out in the DEMP. If it is considered that the waste received, handled, treated and stored at the site, or the site surfacing itself is in a condition that has the potential to release a significant quantity of dust such that there is a potential for off site dust emissions, additional dust suppression measures will be employed in a manner proportionate to the risk. These actions will be undertaken as part of the routine operation of the site. The action plan in this section of the report sets out the additional actions that will be taken in the event that conditions are identified whereby the routine measures need to be supplemented or improved.

Introduction

6.2 The action plan will be implemented in the event that:-

i) there is an unacceptable visual emission of particulate matter from the site or
ii) a complaint is received.

6.3 An unacceptable visual emission of particulate matter from the site comprises a visual observation of dust or particulate matter crossing the site boundary. The initial observation will be made by the site operative who has identified the emission and will be verified by the site manager.

6.4 The timescale for implementation of the action plan will vary depending on the circumstances under which it is implemented. If an unacceptable visual emission is observed by site operatives there will be no delay in implementing the action plan, whereas a complaint may be received by the operator a number of hours or even days after the activity that may have contributed to the complaint has ceased. In the latter case investigation of the complaint will be based on a review of the data and observations recorded at the site corresponding to the time at which the complainant observed the event.

Action plan

6.5 In the event that an unacceptable visual emission of particulate matter from the site is observed by site personnel or in the event of a complaint associated with particulate matter emitted from the site the event will be investigated immediately by the site manager to determine the source as follows:

If it is established that the emissions are attributable to the waste activities being undertaken at the Tarmac site action will be taken to control the emissions including where relevant:

- Establish the cause of the emissions and take immediate action to control the emissions.
- If emissions are attributable to unloading or processing (crushing and screening) of waste, additional dust suppression will be applied to control the particulate matter emission from the activity being undertaken. If necessary, the unloading and processing of waste will temporarily cease.
- Organise additional road sweeping and mobilise the bowser to spray the affected area if necessary.
- Take action to ensure that vehicles are obeying the speed limits.
- Identify whether there are any other activities being undertaken at locations other than the Tarmac waste facility and estimate the extent to which other activities may contribute to the visual emissions observed on the site including circumstances where windblown dust may be transported across and/or over the site from the external sources.
- In the unlikely event that the routine control measures employed at the site are not sufficient to control particulate matter emissions then consideration will be given to further measures to minimise and control emissions.

6.6 Appropriate action will be taken which will include the cessation of the activity. The decision to cease activity is made at the discretion of the TCM and/or site manager based on the circumstances leading to the complaint. In the case of a complaint, the action taken will be communicated to the complainant. The nature of the

complaint, the findings of the investigation and the action taken will be recorded using the complaints procedure which forms part of the accredited ISO14001 management system. In the case of a complaint, the action taken is communicated to the complainant and the Environment Agency continually following the receipt of the complaint. The relevant operational procedures will be reviewed and if improvements are needed they will be implemented. The decision to make improvements to operational procedures is made at the discretion of the TCM and/or site manager based on the circumstances leading to the complaint.

TABLES

Table DEMP 1
Waste types authorised to be accepted at the site

Waste code	Description of waste
17	**Construction and demolition wastes**
17 03	**Bituminous mixtures, coal tar and tarred products**
17 03 02	bituminous mixtures other than those mentioned in 17 03 01

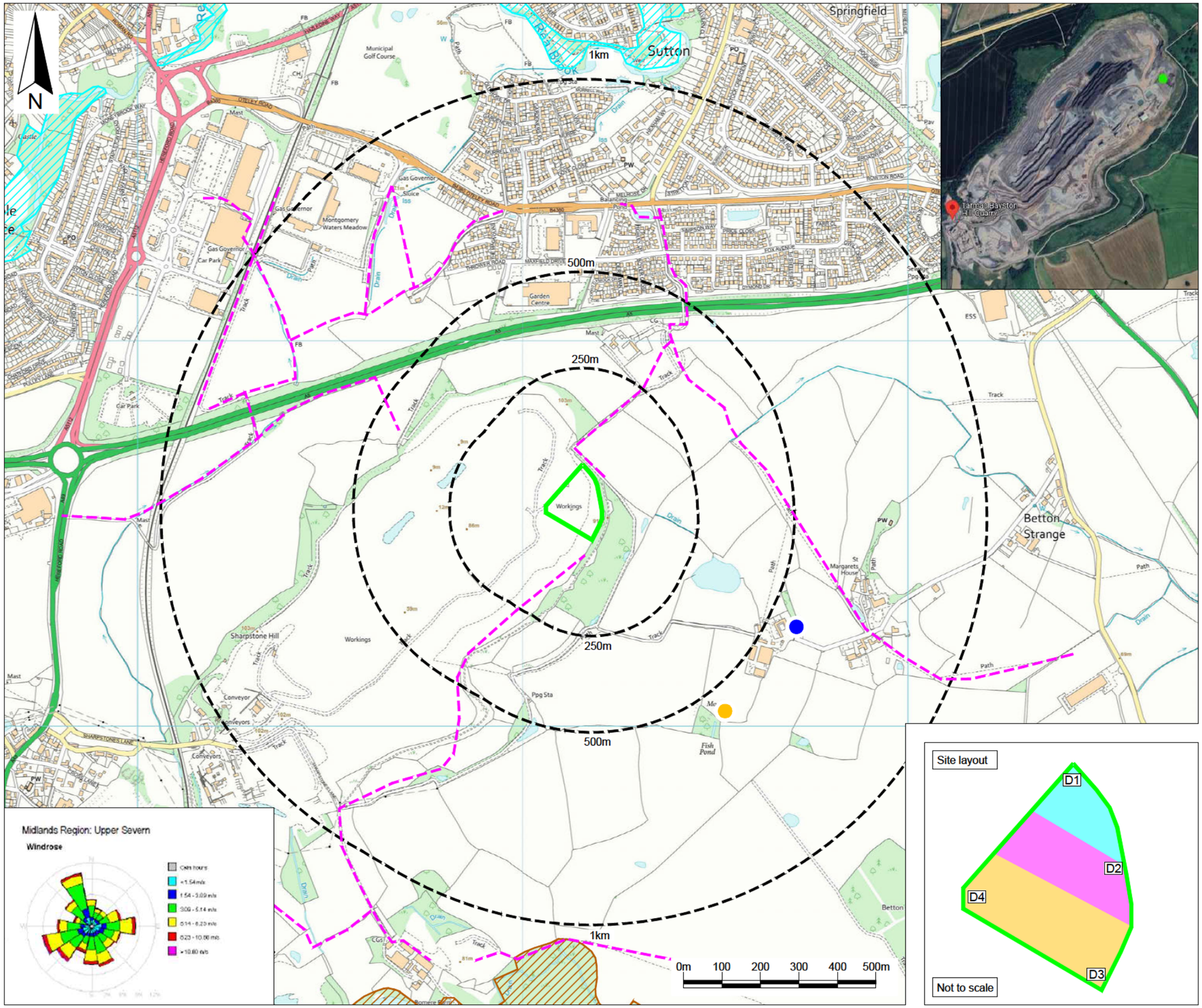
Table DEMP 2

Source - pathway - receptor linkages

Source	Pathway	Techniques employed to minimise the emissions of dust
Vehicles entering and/or leaving the site with mud on their wheels	Tracking out of the site of particulate matter and mud on vehicle wheels which may drop off and deposit on the public highway which may subsequently dry and generate particulate matter if disturbed such as when tracked over by vehicles.	All vehicles delivering waste to the site will use the wheel cleaning facilities in the mineral processing area as necessary before leaving the wider quarry site. The wheel cleaning facilities will be maintained in full working order throughout the life of the site. The site access road will be maintained and swept with a road sweeper as necessary.
The resuspension of particulate matter on roads and site surfacing by vehicles	Atmospheric dispersion	A mechanical road sweeper is employed at the site to clean the site, including the area between the storage and processing areas and the site entrance/exit. The mechanical road sweeper will be complemented as needed by manual sweeping by site personnel using brushes. The hardstanding surface of the site will be dampened down as necessary to reduce the potential for particulate matter to be resuspended by vehicles travelling in this part of the site.
The release of particulate matter and debris from waste loads as they are delivered to the site	Falling off delivery or collection vehicles.	All vehicles using the site will be instructed to sheet or otherwise contain their loads prior to arrival at the site to minimise the risk of particulate emissions. Loads will be sheeted or contained until such time as they are inspected and/or deposited. Outgoing loads will be sheeted.
The release of particulate matter when waste loads are deposited or set down in stockpiles on the site.	Atmospheric dispersion	Drop heights are kept to a minimum and loads that arrive sheeted are kept sheeted immediately prior tipping to minimise the potential for release of dust. Dust suppression is provided at the site by a mobile water bowser which is employed to minimise the release of dust from stockpiled waste at the site. Employment of a water bowser has been an effective dust suppression technique employed at the wider Bayston Hill Quarry site.
The release of particulate matter when treating	Atmospheric dispersion	Crushing is carried out on a campaign basis (i.e., not on a routine daily basis) and taking into consideration the prevailing weather conditions in order to reduce the risk of

Source	Pathway	Techniques employed to minimise the emissions of dust
waste through crushing.		generating and releasing particulate matter. Crushing will be avoided during weather conditions that preclude effective particulate matter management. The crushing processing plant is equipped with enclosed conveyors and built in dust suppression spray bars to minimise the release of particulate matter during the treatment of waste at the site. A mobile water bowser will be employed to provide additional dust suppression.
The release of particulate matter when treating waste through screening.	Atmospheric dispersion	Drop heights will be minimised during the unloading of waste into the screener. The screener is equipped with a built in dust suppression system to minimise the release of particulate matter during the treatment of waste at the site. A mobile water bowser will be employed to provide additional dust suppression.
Particulate emissions from the exhaust of vehicles and plant on site.	Atmospheric dispersion	Vehicles and plant on site will be maintained to optimise performance and minimise vehicle emissions. A no idling policy will be implemented at the site for vehicles and plant.

FIGURES



Key / Notes

- Environmental Permit boundary
- Offset from the Environmental Permit boundary
- Public rights of way
- Approximate location of Site of Special Scientific Interest (SSSI) - Bomere, Shomere and Betton Pools and Midland Meres & Mosses – Phase 1 Ramsar site
- Approximate location of Local Nature Reserve
- Approximate location of Grade II Listed building - Betton Alkmere
- Approximate location of Scheduled Monument - Moated site, fishponds, and ridge and furrow cultivation remains, 260m southwest of Betton Alkmere
- D1 - D4 Visual monitoring locations
- Typical location of input material prior to processing
- Typical location of treatment output material stockpile
- Typical location of mobile processing equipment area (crushing and screening)

Rev	Status	Drn	App	Chk	Date
	Final	KR	LJB	AW	12/07/24

Site: BAYSTON HILL QUARRY

Client: TARMAC A CRH COMPANY

Title: The site setting

Figure DEMP 1 | Scale: 1:10,000@A3

Drawing Ref: TAR/BSN/05-24/24366

MJCA
Technical advisers on environmental issues
Baddesley Colliery Offices, Main Road, Baxterley, Atherstone Warwickshire, CV9 2LE.
Telephone : 01827 717891
Fax : 01827 718507

APPENDICES

APPENDIX A

DUST MONITORING CHECKLIST

Dust Monitoring Form

Week commencing: ……

Day	Name of assessor	Time	Location	Wind direction	Visual observations / Comments	Action taken
Monday			D1			
			D2			
			D3			
			D4			
Tuesday			D1			
			D2			
			D3			
			D4			
Wednesday			D1			
			D2			
			D3			
			D4			
Thursday			D1			
			D2			
			D3			
			D4			
Friday			D1			
			D2			
			D3			
			D4			
Additional comments						

Signed off by
Management: ……

Use as many of these forms as necessary

APPENDIX B

SITE INSPECTION CHECK SHEET

Site Inspection Check Sheet

Week Commencing: _____

Daily Check	Mon	Tue	Wed	Thu	Fri	Sat	Sun
TCM signed in?							
Waste/materials stored in correct area?							
Outputs – stored in separate marked areas							
Condition of yard – surface integrity, spillages, debris							
Water storage tank – visual check of integrity							
Dust – visual assessment							
Dust – bowser operational							
Noise – assess operations							
Wheel wash - functional							
Mud on road – site entrance checked							
Odour – check for complaints, assess odour							
Litter – check complaints, litter around site							
Security – boundary condition							
Condition of road/site surfaces – cleanliness, surface condition							
☑ if OK or nothing to report ☒ if not – see facility diary for details							

Weekly Inspections	Comments
Permit & EMS – available & up to date	
Duty of Care documents – checks current & recorded?	
Mobile & static plant maintenance – checks completed	
Accommodation/welfare facilities – toilets, mess	

Monthly Inspections	Comments
Warning/information signs – suitability, condition	
Site ID board – condition, still current	
Fire extinguishers / safety equipment	
First Aid boxes – contents & position	
Plant maintenance schedules	

Site Inspection Check Sheet

Comments:

Checks carried out by: Print Name _____ Signed _____ Date _____

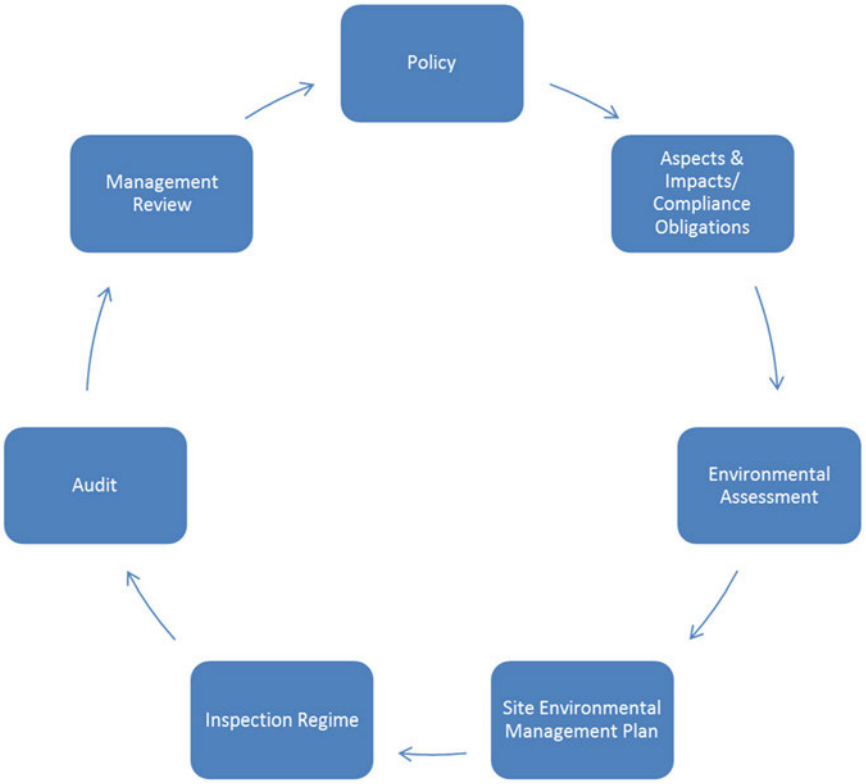
Reviewed by Manager/Director: Print Name _____ Signed _____ Date _____

APPENDIX G

ENVIRONMENTAL MANAGEMENT SYSTEM SUMMARY

Summary of Environmental Management System

Tarmac Trading Limited (Tarmac) has in place an Environmental Management System (EMS) that is certified to the international standard: ISO 14001. The site will be operated under the overarching Core EMS which covers a number of Tarmac sites across the UK. The specific EMS procedures to support the operation of this type of regulated facility under an Environmental Permit in England have been developed with reference to relevant guidance[1] produced by the Environment Agency (EA). The EMS follows the Plan Do Check Act (PDCA) cycle as illustrated below:



A copy of the EMS will be held at the site and will be available for inspection once the site is operational following the issue of the Environmental Permit for the site. A summary of the key elements of the EMS is provided below.

Company Environmental Policy

The EMS is underpinned by the company Environmental Policy which outlines its' high level vision, how it expects operations to be managed and its environmental performance to be

[1] Environment Agency guidance "Developing a management system" and "control and monitor your emissions for your environmental permit" available on the GOV.UK website.

communicated to its stakeholders and to enable the effective deployment of the related principles across its operational sites.

Tarmac is committed to preventing pollution of the environment as a result of its activities and the continual improvement of its environmental performance. Through a dedicated environmental and sustainability panel business objectives are developed. Environmental performance measures are also monitored by these forums and targets are set to enable performance levels to be continuously improved.

Tarmac aims to minimise the environmental impact of its activities by:

- regularly monitoring the effective deployment of the EMS through a series of graded audits
- prior to undertaking work on behalf of Tarmac, all sub-contract personnel will be made aware of site-specific environmental concerns and vulnerabilities through the site induction process
- reducing the amount of waste materials generated by their activities; attempting to recycle and reuse such materials wherever practical and where this is not achievable, disposing of such waste in a responsible manner
- seeking to use raw materials in an efficient manner, replacing them with substitute recycled raw materials where practicable and safe to do so
- promoting the efficient and reduced use of water, fuels and energy, thereby reducing carbon emissions and mitigating the potential for climate change
- purchasing, utilising and storing materials in a manner which poses minimal risk to both individuals and the environment, as far as is practical.

The EMS will be deployed effectively through the company's management organisation. Managers and employees will be assigned environmental responsibilities and will be expected to play a full and active part in managing the environmental aspects of the activities for which they have responsibility. Operational management will be supported by a team of competent advisors and performance will be monitored by environmental auditors.

Company Environmental Standards

All operational sites will be the subject of an Environmental Assessment and will maintain an up-to-date Site Environmental Management Plan (SEMP). This will identify specific activities and their potential impacts on the environment, enabling the site staff to implement the appropriate controls. The implementation and effectiveness of the controls are then supported by our audits which help to monitor compliance.

Waste treatment facility specific aspects

The following aspects have been identified having regard to the protection of the environment, compliance with any environmental permits and the highest standards of operation. These are in addition to the core company aspects described above.

The following aspects relevant to the waste treatment facility at Bayston Hill Quarry will be managed in accordance with any relevant company policies and procedures, site authorisations and statutory obligations.

1. Dust and particulate matter
2. Mud, litter and other debris
3. Noise
4. Security
5. Waste acceptance and rejection
6. Water management

Environmental Assessment

The site manager is responsible for the Environmental Assessment of the operations in normal and abnormal conditions, and for identifying the key environmental aspects of its activities. Through this process the aspects of the operations, that may have a significant impact on the environment can be identified and prioritised for corrective action and improvement together with an evaluation of legal compliance at the site. The site manager/supervisor, together with representatives from the site/area and the compliance and environmental permitting personnel identify and prioritise control measures relevant to the potentially significant environmental

impacts of the operations. The potential impacts most relevant to the site at Bayston Hill Quarry have been identified to be:

1. Biodiversity and ecological management
2. Visual impact
3. Dust
4. Fuel & chemical storage
5. Water monitoring and management
6. Legislation and documentation
7. Noise
8. Solid waste management
9. Vegetation management
10. Vibration
11. Traffic

Site Environmental Management Plan

The Environmental Assessment provides the prioritised potential significant environmental impacts for inclusion in the SEMP. The plan identifies objective(s) and target(s) for each significant impact and ensures that they are relevant to achieving the overall objectives of the Business Unit. The objective (the improvement action) is specific to the corrective/preventative action. The target for the improvement includes a date for completion, the person responsible for the action and verification of the completion by the authorising person. The SEMP is reviewed regularly and shall be consistent with legislation, environmental procedures and the Tarmac Environmental Policy. The SEMP may be updated at any time in order to implement changes/corrective actions identified by any management mechanism.

Each site undertakes all necessary monitoring and measurement of operational activities, as required by legislation, such as environmental permits and planning consents. All such monitoring and measuring information is documented and recorded on a monitoring schedule.

Environmental occurrence/non-conformance reporting system

An environmental occurrence/non-conformance reporting system is in place and has been developed in order to document, investigate and mitigate significant impacts on the environment and for initiating and implementing corrective and preventative action. All incidents are reported, whether or not an external person/agency is involved. Any system non-conformances are also documented for corrective and preventative action.

Inspection regime and audit

The Environment Manager establishes and monitors an annual inspection programme ensuring that all sites are audited by an independent manager who has no responsibility for the site. The auditor completes an associated audit summary sheet, agreeing and summarising as necessary a list of recommended actions in consultation with the site manager. The audit summary sheet is then included in the SEMP and priorities and timescales are assigned. A date for a follow-up visit to ensure close out of any actions has been completed is set up by the visiting auditor and the manager/supervisor. The follow up visit is also be used to ensure previous actions are continuing to work and are effective.

Management Review

There is a tiered review of the EMS at top management level, local area level and at site management level including the procedures, environmental policy and the objectives and targets for the company in order to support its ongoing effectiveness, suitability, adequacy and stability.

APPENDIX H

TECHNICAL COMPETENCE CERTIFICATE

www.ciwm.co.uk/training

The Chartered Institution of Wastes Management

This certificate is awarded by CIWM and provides evidence to meet the Technical Competence requirements of the Environmental Permitting (England & Wales) Regulations 2016 in accordance with the CIWM (WAMITAB) Operator Competence Scheme

Certificate Number:
2826

This is to certify that

Oliver Williams

Attended and satisfactorily completed the following training course

Environmental Permitting Operators Certificate (EPOC)

Held on **5-6 September 2022**

CIWM President